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UNIVERSITY OF WASHINGTON

DEPARTMENT OF

METEOROLOGY AND CLIMATOLOGY

Scientific Report

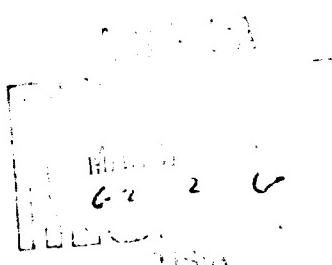
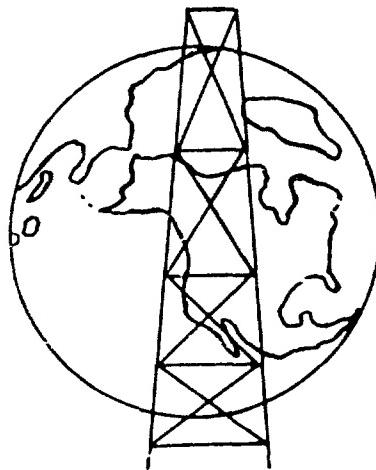
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STATION ARLIS-I OCEANOGRAPHY

Part II, Tables

1960 and 1961

BY G. E. BRAYTON



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FEBRUARY 1962

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EXPLANATION OF DATA TABLES

All observed oceanographic and pertinent meteorological and navigational data were recorded on IBM cards. Interpolated and computed values were calculated using the IBM Type 650 magnetic drum data-processing computor facilities available at the University of Washington. IBM cards containing observed, interpolated and computed values are on file at the Department of Oceanography, University of Washington.

The material contained in the Data Tables was transposed directly from IBM cards to mimeograph masters with the use of the IBM Type 407 Tabulator.

In the interest of uniformity, all data in this report were coded according to the procedures in use at the U.S. Navy Hydrographic Office, Division of Oceanography. Abbreviations and column headings are described below and, where necessary, the Hydrographic Office numerical codes have been reproduced to aid in interpreting the data.

Some of the standard oceanographic observations indicated in the data headings were necessarily omitted because of ice cover, 24 hours of darkness and the inability of the equipment to reach deeper than 1200 meters. Therefore, whenever a blank occurs in the heading, no observation was made. Where a blank space is found in the columns of figures, it usually indicates unreliable temperatures or that the salinity sample was frozen during transportation from ARLIS I to Point Barrow by air in temperatures as low as -40°C.

Interpolations and dynamic computations were made for the deep stations only. The pages of observed data are shown in Table I

and they have been arranged so that Stations 1-118 are consecutive. The interpolation and dynamic calculation tables for each deep station are given in Table II.

Excerpts of Codes Used for Reporting Observations

DATE Greenwich month, day and year.

HR (Hour) Greenwich mean time to the nearest hour midway between the time of the drop of the first messenger to the time of the drop of the last messenger.

LAT (LATITUDE) Degrees and minutes.

LONG (LONGITUDE) Degrees and minutes.

SDG (SOUNDING) Soundings in meters. Made only during the last few stations by wire. No soundings possible in depths greater than 1200 meters.

BTMCCDE (BOTTOM TYPE) omitted

WVEL (WIND VELOCITY) omitted

DIR (WIND DIRECTION) See code, page

FC (WIND FORCE) Force of the wind according to the Beaufort Scale

BA (ATMOSPHERIC PRESSURE) To obtain barometric pressure in millibars add 900 if above 50. If below 50, add 1000.

DRY (AIR TEMPERATURE, DRY BULB) In degrees Celsius

WET (AIR TEMPERATURE, WET BULB) In degrees Celsius.

RELHU (RELATIVE HUMIDITY) Omitted

VIS (VISIBILITY) Range of visibility. See code, page

WEA (WEATHER) State of weather. See code, page

CL (CLOUD TYPE) See code, page

AMT (CLOUD COVER) Amount of cloud cover, see code, page

SEA DIR (SWELL AMOUNT AND DIRECTION) omitted

SECDI (WATER TRANSPARENCY) Omitted

LD (LAYER DEPTH) omitted

CAST Serial number of the cast at the station from which sample was obtained.

DEPTH Depth (corrected) in meters at which sample was obtained

TEMP (TEMPERATURE) In degrees Celsius

SAL $^{\circ}/oo$ (SALINITY) In parts per thousand. Recorded to three decimal places. Considered accurate to within .002 or .003

σ_t (SIGMA-T) Expression for the density of sea water at atmospheric pressure, having the indicated temperature and salinity. To convert tabulated values to density divide by 1000 and add 1; thus, a sigma-t value of 26.50 converts to a density of 1.02650.

$10^5 \Delta V$ is the anomaly of specific volume of the water at the indicated pressure compared to a standard water of $35^{\circ}/oo$ salinity and $0^{\circ}C$. temperature, at the same pressure.

Tabular values multiplied by 10^{-5} will give the anomaly in units of cubic centimeters per gram.

$\Sigma \Delta L$ Geopotential anomaly in dynamic meters of the layer of water between the surface and the designated pressure.

(The depth in meters is taken as numerically equal to the pressure in decibars.)

K O D A K S A F E T Y L I M +

EXCERPTS OF CODES USED FOR REPORTING OBSERVATIONS
Taken from U. S. Navy Hydrographic Office Study 111
"Machine Tabulation of Oceanographic Data"

DIRECTION (Compass direction from which wind is coming.)

Code

- 00 Calm, or no value
01-36 Each value representing 1/10 of the true direction in degrees, measured clockwise from the north, with 36 representing true north.

VISIBILITY

Code

1. Thick fog, objects not visible at 200 yards
2. Fog, objects not visible at 400 yards
3. Moderate fog, objects not visible at 1000 yards
4. Thin fog or mist, objects not visible at 1 nautical mile
5. Visibility poor, objects not visible at 2 nautical miles
6. Visibility moderate, objects not visible at 5 nautical miles
7. Visibility good, objects not visible at 10 nautical miles
8. Visibility very good, objects not visible at 30 nautical miles

WEATHER

Code

- 00 Cloud development not observed or observable
01 clouds generally desolving or becoming less developed
02 State of sky on the whole unchanged
03 Clouds generally forming or developing
08 Well developed dust devils (snow) seen at or near the ship within last hour
10 Light fog (visibility 1,100 yards or more)
28 Fog
36 Slight or moderate drifting snow
41 Fog in patches
70 Intermittent fall of snow flakes
71 Continuous fall of snow flakes
76 Ice needles (with or without fog)
77 Granular snow (with or without fog)
78 Isolated starlike snow crystals (with or without fog)
85 Snow shower(s) slight

CLOUD TYPE

Code

- 0 Stratus or Fractostratus
- 1 Cirrus
- 5 Altostratus
- 6 Stratocumulus

CLOUD AMOUNT

Code

- 0 No clouds
- 1 Less than 1/10 or 1/10
- 2 2/10 and 3/10
- 3 4/10
- 4 5/10
- 5 6/10
- 6 7/10 and 8/10
- 7 9/10 and 9/10 plus
- 8 10/10
- 9 Sky obscured

TABLE I
OBSERVED PHYSICAL OCEANOGRAPHIC DATA

STATION AR1-001

OBSERVED VALUES

DATE 09/26/60 HR 02 LAT 74-40N LONG 141-07W SDG BTM CODE
 WVEL DIR 06 FC 04 BA 27 DRY -09.9 WET -10.5 RELHU VIS 6
 WEA 71 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	0	-1.58	28.980	23.32
1	11	-1.57	28.980	23.32
1	21	-1.47	28.090	22.60
1	31	-1.28	29.710	23.90
1	41	-1.36	29.970	24.11
1	51	-1.61	30.110	24.23
1	76	-1.07	31.450	25.30
1	101	-1.22	32.030	25.78
1	151	-1.43	32.740	26.36
1	201	-1.40	33.460	26.94

STATION AR1-002

OBSERVED VALUES

DATE 09/28/60 HR 23 LAT 75-12N LONG 140-49W SDG BTM CODE
 WVEL DIR 15 FC 04 BA 05 DRY -01.8 WET -02.0 RELHU VIS 5
 WEA 02 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.57	28.865	23.22
2	10	-1.57	28.875	23.23
2	20	-1.56	28.910	23.26
2	30	-1.35	28.180	22.67
2	40	-1.39	28.395	22.84
2	50	-1.18	30.810	24.79
2	75	-1.25	31.800	25.59
2	100	-1.38	32.090	25.83
2	150	-1.60	32.430	26.11
2	200	-1.44	33.150	26.69
1	304	-0.13	34.630	27.83
1	404	0.34	34.850	27.99
1	504	0.40	34.860	27.99
1	604	0.39	34.870	28.00
1	804	0.14	34.880	28.02
1	1004	-0.17	34.900	28.03
1	1204	-0.19	34.900	28.06

STATION AR1-003

OBSERVED VALUES

DATE 09/29/60 HR 03 LAT 75-12N LONG 140-44W SDG BTM CODE
 WVEL DIR 17 FC 03 RA 01 DRY -02.7 WET -03.0 REL HU VIS 6
 WEA 03 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	35	-1.40	30.020	24.16
1	40	-1.39	30.140	24.25
1	50	-1.18	31.110	25.03
1	55	-1.18	31.290	25.18
1	60	-1.12	31.490	25.34
1	65	-1.20	31.625	25.45
1	70	-1.29	31.710	25.52
1	75	-1.32	31.770	25.57
1	80	-1.33	31.800	25.59
1	85	-1.29	31.910	25.68

STATION AR1-004

OBSERVED VALUES

DATE 09/30/60 HR 00 LAT 75-08N LONG 140-29W SDG BTM CODE
 WVEL DIR 31 FC 03 RA 05 DRY -02.8 WET -03.0 REL HU VIS 6
 WEA 03 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.56	28.865	23.22
2	10	-1.56	28.960	23.30
2	20	-1.56	28.930	23.28
2	30	-1.55	28.960	23.30
2	40	-1.41	28.980	23.31
2	50	-1.36	28.960	23.30
2	75	-1.14	30.930	24.89
2	101	-1.20	31.630	25.45
2	151	-1.38	32.475	26.14
2	202	-1.42	33.010	26.58
1	302	-0.16	34.540	27.76
1	402	0.33	34.700	27.87
1	502	0.47	34.785	27.93
1	603	0.38	34.790	27.94
1	804	0.12	34.840	27.99
1	1005	-0.07	34.850	28.01
1	1206	-0.20	34.850	28.02

STATION AR1-005

OBSERVED VALUES

DATE 09/30/60 HR 05 LAT 75-07N LONG 140-30W SDG BTM CODE
 WVEL DIR 02 FC 02 BA 85 DRY -04.7 WET -05.0 RELHU VIS 6
 WEA 03 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.34	30.110	24.23
1	45	-1.37	30.300	24.38
1	55	-1.16	31.050	24.98
1	60	-1.20	31.210	25.11
1	65	-0.99	31.340	25.21
1	70	-1.07	31.530	25.37
1	81	-1.07	31.710	25.51
1	86	-1.09	31.820	25.60
1	91	-1.14	31.940	25.70
1	96	-1.18	32.020	25.77

STATION AR1-006

OBSERVED VALUES

DATE 10/01/60 HR 00 LAT 75-03N LONG 140-31W SDG BTM CODE
 WVEL DIR 05 FC 03 BA 16 DRY -12.5 WET -13.0 RELHU VIS 6
 WEA 01 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.860	23.22
2	10	-1.58	28.840	23.20
2	20	-1.57	28.880	23.24
2	30	-1.55	29.170	23.47
2	40	-0.75	30.060	24.17
2	50	-1.27	30.720	24.72
2	75	-1.14	31.363	25.24
2	151	-1.44	32.680	26.31
2	101	-1.25	32.005	25.76
2	202	-1.42	33.505	26.98
1	252	-0.71	34.330	27.62
1	303	-0.14	34.930	27.75
1	404	0.45	34.840	27.97
1	505	0.49	34.875	28.00
1	606	0.37	34.930	28.05
1	808	0.13	34.930	28.06
1	1010	-0.08	34.930	28.07
1	1212	-0.20	34.930	28.08

STATION AR1-007

OBSERVED VALUES

DATE 10/03/60 HR 21 LAT 74-58N LONG 142-12W SDG BTM CODE
 WVEL DIR 09 FC 03 BA 07 DRY -17.2 WET * RELHU VIS 6
 WEA 01 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	249	-1.06	33.930	27.31
1	298	-0.43	34.450	27.70
1	397	0.31	34.710	27.88
1	496	0.47	34.790	27.93
1	595	0.38	34.810	27.95
1	794	0.17	34.850	28.00
1	993	-0.04	34.850	28.01
1	1192	-0.16	34.850	28.01

STATION AR1-008

OBSERVED VALUES

DATE 10/07/60 HR 04 LAT 74-44N LONG 143-33W SDG BTM CODE
 WVEL DIR 27 FC 04 BA 10 DRY -15.2 WET -16.2 RELHU VIS 6
 WEA 02 CL 0 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	29.200	23.49
2	10	-1.58	28.930	23.28
2	20	-1.57	28.850	23.21
2	30	-1.59	28.750	23.13
2	40	-1.35	30.000	24.14
1	50	-1.20	31.185	25.09
1	75	-1.23	31.820	25.61
1	100	-1.22	32.090	25.83
1	150	-1.52	32.535	26.19
1	200	-1.41	33.035	26.60
3	250	-0.94	34.120	27.46
3	301	-0.19	34.600	27.81
3	402	0.34	34.805	27.95
3	503	0.49	34.840	27.97
3	604	0.47	34.880	28.00
3	806	0.26	34.875	28.01
3	1007	-0.01	34.890	28.04
3	1208	-0.25	34.910	28.07

STATION AR1-009

OBSERVED VALUES

DATE 10/08/60 HR 00 LAT 74-28N LONG 143-30W SDG BTMCODE
 WVEL DIR 24 FC 04 BA 16 DRY -20° WET 0 ° RELHU VIS 7
 WEA 00 CL 0 AMT 6 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.57	28.920	23.27
2	10	-1.57	28.930	23.28
2	20	-1.58	28.930	23.28
2	30	-1.60	28.955	23.30
2	40	-1.40	30.070	24.20
2	50	-1.34	32.010	25.76
2	75	-1.14	32.690	26.31
2	101	-1.24	33.190	26.72
2	151	-1.33	33.230	26.75
2	202	-1.42	33.265	26.78
1	252	-0.85	34.210	27.53
1	303	-0.18	34.560	27.78
1	404	0.27	34.790	27.94
1	505	0.47	34.850	27.98
1	606	0.39	34.875	28.00
1	808	0.14	34.875	28.02
1	1010	-0.05	34.880	28.03
1	1212	-0.20	34.880	28.04

STATION AR1-010

OBSERVED VALUES

DATE 10/08/60 HR 02 LAT 74-30N LONG 143-31W SDG BTMCODE
 WVEL DIR 25 FC 03 BA 19 DRY 17.7° WET ° RELHU VIS 7
 WEA 02 CL 0 AMT 7 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.37	30.070	24.20
1	45	-1.38	31.420	25.29
1	55	-1.21	32.070	25.81
1	60	-1.20	31.130	25.05
1	65	-1.19	32.570	26.21
1	70	-1.14	31.490	25.34
1	80	-1.12	31.710	25.52
1	85	-1.12		
1	90	-1.13	31.810	25.60
1	95	-1.18	33.180	26.71

STATION AR1-013

OBSERVED VALUES

DATE 10/10/60 HR 23 LAT 74-33N LONG 143-19W SDG BTM CODE
 WVEL DIR 10 FC 02 BA 27 DRY -14.3 WET -15.0 RELHU VIS 6
 WEA 03 CL 0 AMT 6 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.960	23.30
2	10	-1.58	28.950	23.29
2	20	-1.58	28.960	23.30
2	30	-1.60	29.200	23.50
2	40	-1.39	29.960	24.11
2	50	-1.38	30.415	24.47
2	75	-1.08	31.190	25.09
2	100	-1.19	32.000	25.75
2	150	-1.36	32.600	26.24
2	200	-1.40	33.200	26.73
1	250	-0.76	33.700	27.11
1	300	-0.15	34.100	27.41
1	400	0.35	34.790	27.94
1	500	0.49	34.900	28.02
1	600	0.39	34.910	28.03
1	800	0.15	34.900	28.04
1	1000	0.02	34.910	28.05
1	1200	-0.20	34.910	28.06

STATION AR1-014

OBSERVED VALUES

DATE 10/11/60 HR 03 LAT 74-33N LONG 143-26W SDG BTM CODE
 WVEL DIR 10 FC 02 BA 27 DRY -14.3 WET -15.0 RELHU VIS 6
 WEA 03 CL 0 AMT 6 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.48	30.030	24.17
1	45	-1.38	30.080	24.20
1	55	-1.23	31.040	24.98
1	60	-1.19	31.200	25.11
1	67	-1.19	31.200	25.11
1	70	-1.14	31.340	25.22
1	80	-1.10	31.600	25.43
1	85	-1.11	31.740	25.54
1	90	-1.11	31.810	25.60
1	95	-1.16	31.890	25.66

STATION ARI-015

OBSERVED VALUES

DATE 10/14/60 HR 04 LAT 74-29N LONG 144-31W SDG BTM CODE
 WVEL DIR 03 FC 04 BA 21 DRY -23.2 WET * RELHU VIS 7
 WEA 00 CL AMT SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.810	23.18
2	10	-1.58	28.910	23.26
2	20	-1.58	28.810	23.18
2	30	-1.61	28.910	23.26
2	40	-1.40	29.920	24.07
2	50	-1.32	30.450	24.50
2	75	-1.08	31.380	25.25
2	100	-1.20	31.990	25.74
2	150	-1.35	32.640	26.27
2	200	-1.42	33.180	26.71
1	250	-0.85	34.130	27.46
1	300	-0.19	34.480	27.72
1	401	0.35	34.700	27.87
1	502	0.48	34.750	27.90
1	603	0.38	34.860	27.99
1	804	0.16	34.855	28.00
1	1005	-0.01	34.875	28.03
1	1206	-0.21	34.870	28.03

STATION ARI-016

OBSERVED VALUES

DATE 10/14/60 HR 06 LAT 74-28N LONG 144-35W SDG BTM CODE
 WVEL DIR 03 FC 04 BA 21 DRY -23.2 WET * RELHU VIS 7
 WEA 00 CL AMT SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.37	29.840	24.01
1	45	-1.37	30.030	24.16
1	55	-1.31	30.660	24.67
1	60	-1.10	30.980	24.93
1	65	-1.11	31.060	24.99
1	70	-1.08	31.260	25.15
1	80	-1.05	31.645	25.46
1	85	-1.08	31.645	25.46
1	90	-1.00	31.790	25.58
1	95	-1.18	32.000	25.75

STATION AR1-019

OBSERVED VALUES

DATE 10/17/60 HR 22 LAT 74-37N LONG 144-53W SDG BTM CODE
 WVEL DIR 12 FC 04 BA 27 DRY -16.5 WET -17.2 RELHU VIS 4
 WEA 01 CL 0 AMT 1 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.56	28.955	23.30
2	10	-1.57	28.950	23.29
2	20	-1.60	28.950	23.29
2	30	-1.61	28.950	23.29
2	40	-1.39	30.020	24.16
2	50	-1.29	30.610	24.63
2	75	-1.02	31.580	25.41
2	100	-1.29	32.205	25.92
2	150	-1.29	32.620	26.26
2	200	-1.28	32.890	26.47
1	250	-1.02	34.040	27.40
1	300	-0.22	34.540	27.77
1	400	0.31	34.780	27.93
1	500	0.48	34.820	27.95
1	600	0.39	34.880	28.01
1	800	0.15	34.880	28.02
1	1000	-0.06	34.920	28.07
1	1200	-0.10	34.920	28.07

STATION AR1-020

OBSERVED VALUES

DATE 10/17/60 HR 23 LAT 74-39N LONG 144-52W SDG BTM CODE
 WVEL DIR 17 FC 03 BA 25 DRY -07.0 WET -07.5 RELHU VIS 7
 WEA 03 CL 0 AMT 8 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.38	29.832	24.00
1	45	-1.49	30.000	24.14
1	55	-1.21	30.645	24.66
1	60	-1.13	30.970	24.92
1	65	-1.08	31.140	25.05
1	70	-1.01	31.270	25.16
1	80	-1.09	31.555	25.39
1	85	-1.14	31.680	25.49
1	90	-1.20	31.915	25.68
1	95	-1.26	31.820	25.61

STATION AR1-021

OBSERVED VALUES

DATE 10/20/60 HR 05 LAT 74-44N LONG 144-42W SDG BTM CODE
 WVEL DIR 29 FC 03 RA 15 DRY -09.9 WET -10.3 RELHU VIS 5
 WEA 78 CL 5 AMT 8 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.980	23.32
2	10	-1.57	29.000	23.33
2	20	-1.58	29.000	23.33
2	30	-1.61	29.000	23.33
2	40	-1.38	30.073	24.20
2	50	-1.36	30.346	24.42
2	75	-1.12	31.470	25.32
2	100	-1.20	32.050	25.79
2	150	-1.40	32.830	26.43
2	200	-1.41	33.302	26.81
1	250	-0.85	33.956	27.32
1	300	-0.21	34.380	27.64
1	400	0.32	34.785	27.94
1	500	0.48	34.800	27.94
1	600	0.40	34.798	27.94
1	800	0.17	34.820	27.97
1	1000	0.07	34.875	28.02
1	1200	-0.06	34.890	28.04

STATION AR1-022

OBSERVED VALUES

DATE 10/20/60 HR 07 LAT 74-43N LONG 144-40W SDG BTM CODE
 WVEL DIR 29 FC 03 RA 15 DRY -09.9 WET -10.3 RELHU VIS 5
 WEA 78 CL 5 AMT 8 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.38	30.040	24.17
1	45	-1.38	30.144	24.26
1	55	-1.27	30.730	24.73
1	60	-1.21	30.970	24.92
1	65	-1.17	31.124	25.04
1	70	-1.16	31.310	25.19
1	80	-1.10	31.560	25.39
1	85	-1.10	31.740	25.54
1	90	-1.11	31.825	25.61
1	95	-1.15		

STATION AR1-023

OBSERVED VALUES

DATE 10/23/60 HR 02 LAT 74-54N LONG 144-37W SDG BTM CODE
 WVEL DIR 08 FC 05 BA 12 DRY -17.2 WET -18.0 RELHU VIS 7
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	29.045	23.37
2	10	-1.58	29.050	23.37
2	20	-1.59	29.070	23.39
2	30	-1.60	29.045	23.37
2	40	-1.38	30.170	24.28
2	50	-1.37	30.300	24.38
2	75	-1.15	31.490	25.34
2	100	-1.28	32.090	25.83
2	150	-1.41	33.320	26.83
2	200	-1.42	33.820	27.23
1	250	-0.90	34.235	27.55
1	300	-0.21	34.600	27.82
1	400	0.33	34.820	27.96
1	500	0.48	34.900	28.02
1	600	0.42	34.910	28.03
1	800	0.18	34.900	28.04
1	1000	-0.04	34.920	28.06
1	1200	-0.26	34.970	28.12

STATION AR1-024

OBSERVED VALUES

DATE 10/23/60 HR 03 LAT 74-56N LONG 145-45W SDG BTM CODE
 WVEL DIR 07 FC 05 BA 14 DRY -18.8 WET -19.5 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.37	30.140	24.25
1	45	-1.40	30.165	24.27
1	55	-1.26	30.540	24.57
1	60	-1.16	31.060	24.99
1	65	-1.07	31.150	25.06
1	70	-1.09	31.380	25.25
1	80	-1.01	31.620	25.44
1	85	-1.09	31.790	25.58
1	90	-1.13	31.870	25.65
1	95	-1.19	31.890	25.66

STATION AR1-025

OBSERVED VALUES

DATE 10/24/60 HR 23 LAT 74-57N LONG 146-30W SDG BTM CODE
 WVEL DIR 04 FC 04 BA 22 DRY -22.6 WET * RELHU VIS 7
 WEA 08 CL 0 AMT 6 SEA DIR SWL DIR * SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.59	29.100	23.41
2	10	-1.60	29.094	23.41
2	20	-1.60	29.090	23.41
2	30	-1.61	29.122	23.43
2	40	-1.41	30.130	24.24
2	50	-1.26	30.690	24.69
2	75	-1.14	31.594	25.42
2	100	-1.33	32.158	25.88
2	150	-1.46	32.580	26.24
2	201	-1.50	32.896	26.49
1	251	-1.11	33.950	27.33
1	301	-0.29	34.600	27.82
1	402	0.30	34.830	27.97
1	502	0.48	34.850	27.98
1	603	0.44	34.870	28.00
1	804	0.21	34.880	28.02
1	1005	0.01	34.880	28.03
1	1206	-0.19	34.870	28.03

STATION AR1-026

OBSERVED VALUES

DATE 10/25/60 HR 01 LAT 74-56N LONG 146-35W SDG BTM CODE
 WVEL DIR 04 FC 04 BA 22 DRY -22.6 WET * RELHU VIS 7
 WEA 08 CL 0 AMT 6 SEA DIR SWL DIR * SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.43	30.310	24.39
1	50	-1.23	30.610	24.63
1	55	-1.19	30.992	24.94
1	60	-1.13	31.140	25.06
1	65	-1.09	31.334	25.21
1	70	-1.08	31.458	25.31
1	80	-1.20	31.735	25.54
1	85	-1.23	31.946	25.71
1	90	-1.27	31.950	25.71
1	95	-1.30	32.008	25.76

STATION AR1-027

OBSERVED VALUES

DATE 10/26/60 HR 23 LAT 74-50N LONG 147-35W SDG BTM CODE
 WVEL DIR 02 FC 04 BA 26 DRY -24.2 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.59	29.100	23.41
2	10	-1.59	29.100	23.41
2	20	-1.60	29.080	23.41
2	30	-1.60	29.100	23.41
2	40	-1.48	29.680	23.89
2	50	-1.38	30.380	24.41
2	75	-1.38	31.380	25.26
2	100	-1.24	32.040	25.79
2	150	-1.32	32.660	26.29
2	200	-1.43	33.230	26.75
1	250	-0.73	34.190	27.51
1	300	-0.18	34.608	27.82
1	400	0.33	34.800	27.95
1	500	0.48	34.878	28.00
1	600	0.41	34.900	28.02
1	800	0.21	34.896	28.03
1	1000	0.00	34.900	28.05
1	1200	-0.19	34.900	28.06

STATION AR1-028

OBSERVED VALUES

DATE 10/27/60 HR 02 LAT 74-49N LONG 147-40W SDG BTM CODE
 WVEL DIR 35 FC 03 BA 21 DRY -20.3 WET * RELHU VIS 6
 WEA 78 CL 0 AMT 6 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.56	29.306	23.58
1	45	-1.45	30.060	24.19
1	55	-1.34	30.740	24.74
1	60	-1.22	30.946	24.90
1	65	-1.14	31.076	25.00
1	70	-1.13	31.268	25.16
1	80	-1.21	31.562	25.40
1	85	-1.20	31.680	25.49
1	90	-0.73	31.790	25.57
2	95	-1.18	31.940	25.70
2	105	-1.28	32.093	25.83
2	110	-1.29	32.212	25.93
2	115	-1.32	32.250	25.96
2	120	-1.37	32.376	26.06
2	130	-1.39	32.502	26.16
2	135	-1.38	32.550	26.20
2	140	-1.41	32.590	26.24

STATION AR1-029

OBSERVED VALUES

DATE 10/28/60 HR 23 LAT 74-46N LONG 148-17W SDG BTM CODE
 WVEL DIR 01 FC 03 BA 24 DRY -26.7 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	29.120	23.43
2	10	-1.59	29.062	23.38
2	20	-1.60	29.090	23.41
2	30	-1.61	29.090	23.41
2	40	-1.40	30.110	24.23
2	50	-1.35	30.550	24.58
2	75	-1.07	31.330	25.21
2	101	-1.24	32.136	25.86
2	151	-1.44	32.932	26.51
2	202	-1.44	33.420	26.91
2	252	-1.15	33.822	27.22
1	303	-0.31	34.470	27.71
1	404	0.30	34.790	27.94
1	505	0.48	34.880	28.00
1	606	0.43	34.890	28.01
1	808	0.18	34.880	28.02
1	1010	-0.03	34.870	28.02
1	1212	-0.29	34.900	28.06

STATION AR1-030

OBSERVED VALUES

DATE 10/29/60 HR 01 LAT 74-43N LONG 148-18W SDG BTM CODE
 WVEL DIR 01 FC 03 BA 24 DRY -26.7 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.34	29.978	24.12
1	45	-1.38	30.341	24.41
1	53	-1.28	30.720	24.72
1	60	-1.18	30.995	24.94
1	65	-1.16	31.153	25.07
1	70	-1.10	31.265	25.16
1	80	-1.20	31.590	25.42
1	85	-1.20	31.700	25.51
1	90	-1.23	31.820	25.61
1	95	-1.22	31.990	25.74

STATION AR1-031

OBSERVED VALUES

DATE 10/31/60 HR 00 LAT 74-48N LONG 148-52W SDG BTM CODE
 WVEL DIR 36 FC 03 BA 20 DRY -26.4 WET * RELHU VIS 7
 WEA 01 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.59	29.110	23.42
	10	-1.60	29.010	23.34
	20	-1.61	29.112	23.42
	30	-1.63	29.110	23.42
	40	-1.62	29.010	23.34
	50	-1.43	30.300	24.38
	75	-1.33	31.166	25.08
2	100	-1.23	31.910	25.68
	150	-1.45	32.688	26.32
	201	-1.42	33.256	26.77
	251	-0.76	34.186	27.50
1	301	-0.12	34.600	27.81
1	402	0.34	34.770	27.92
1	502	0.47	34.830	27.96
1	603	0.39	34.830	27.97
1	804	0.17	34.850	28.00
1	1005	-0.06	34.880	28.03
1	1206	-0.24	34.900	28.06

STATION AR1-032

OBSERVED VALUES

DATE 10/31/60 HR 02 LAT 74-37N LONG 148-55W SDG BTM CODE
 WVEL DIR 01 FC 03 BA 21 DRY -26.2 WET * RELHU VIS 7
 WEA 01 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.59	29.110	23.42
1	65	-1.37	30.110	24.23
1	55	-1.48	30.612	24.64
1	60	-1.32	30.780	24.77
1	65	-1.37	31.038	24.98
1	70	-1.42	31.124	25.05
1	80	-1.48	31.286	25.18
1	85	-1.20	31.445	25.32
1	90	-1.14	31.630	25.48
1	95	-1.19	31.792	25.58
2	105	-1.24	32.009	25.76
2	110	-1.27	32.095	25.83
2	115	-1.40	32.280	25.97
2	120	-1.35	32.316	26.01
2	130	-1.49	32.410	26.09
2	135	-1.39	32.460	26.13
2	140	-1.42	32.510	26.17

STATION AR1-033

OBSERVED VALUES

DATE 11/01/60 HR 01 LAT 74-34N LONG 149-13W SDG BTM CODE
 WVEL DIR 03 FC 04 BA 23 DRY -19.6 WET -20.5 RELHU VIS 5
 WEA 78 CL 0 AMT 7 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.60	29.000	23.33
2	10	-1.61	29.190	23.49
2	20	-1.62	29.196	23.49
2	30	-1.63	29.180	23.48
2	40	-1.60	29.180	23.48
2	50	-1.45	29.636	23.85
2	75	-1.22	31.146	25.06
2	100	-1.20	31.680	25.49
2	150	-1.45	32.540	26.20
2	201	-1.46	32.990	26.56
1	251	-0.77	33.900	27.27
1	301	-0.05	34.630	27.83
1	402	0.43	34.790	27.93
1	502	0.47	34.870	28.00
1	603	0.50	34.976	28.08
1	804	0.15	34.983	28.10
1	1005	-0.07	34.985	28.12
1	1206	-0.21	34.985	28.13

STATION AR1-034

OBSERVED VALUES

DATE 11/01/60 HR 04 LAT 74-33N LONG 149-20W SDG BTM CODE
 WVEL DIR 36 FC 03 BA 25 DRY -25.3 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.56	29.605	23.82
1	45	-1.38	30.280	24.37
1	55	-1.34	30.680	24.69
1	60	-1.23	30.940	24.90
1	65	-1.18	31.010	24.95
1	70	-1.13	31.200	25.10
1	80	-1.14	31.490	25.34
1	85	-1.20	31.590	25.42
1	90	-0.92	31.680	25.49
1	95	-1.20	31.860	25.64
2	105	-1.30	32.030	25.78
2	110	-1.29	32.160	25.88
2	115	-1.35	32.230	25.94
2	120	-1.35	32.380	26.06
2	130	-1.40	32.430	26.11
2	135	-1.22	32.475	26.14
2	140	-1.39	32.540	26.19

STATION AR1-035

OBSERVED VALUES

DATE 11/03/60 HR 00 LAT 74-31N LONG 149-36W SDG BTM CODE
 WVEL DIR 36 FC 03 BA 35 DRY -30.9 WET -32.1 RELHU VIS 6
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.60	28.990	23.33
	10	-1.61	28.960	23.30
	20	-1.61	28.950	23.29
	30	-1.64	29.020	23.35
2	40	-1.38	30.020	24.16
	50	-1.31	30.615	24.64
	75	-1.43	31.380	25.26
	100	-1.25	31.950	25.71
2	150	-1.43	32.490	26.15
	200	-1.45	33.230	26.75
	250	-0.93	33.960	27.33
	300	-0.18	34.490	27.72
1	400	0.33	34.785	27.94
	500	0.48	34.800	27.94
	600	0.41	34.830	27.97
	800	0.15	34.860	28.01
1	1000	-0.03	34.890	28.04
	1200	-0.21	34.930	28.08

STATION AR1-036

OBSERVED VALUES

DATE 11/03/60 HR 02 LAT 74-31N LONG 149-39W SDG BTM CODE
 WVEL DIR 01 FC 03 BA 35 DRY -30.6 WET * RELHU VIS 7
 WEA 00 CL C AMT 0 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.37	30.050	24.18
	45	-1.35	30.330	24.41
	55	-1.20	30.780	24.77
	60	-1.19	30.960	24.91
1	67	-1.38	31.085	25.02
	70	-1.47	31.179	25.09
	80	-1.25	31.490	25.34
	85	-1.23	31.610	25.44
1	90	-1.17	31.660	25.48
	95	-1.23	31.890	25.66
	105	-1.28	32.000	25.75
	110	-1.29	32.060	25.80
2	115	-1.31	32.100	25.84
	120	-1.36	32.150	25.88
	130	-1.40	32.250	25.96
	135	-1.37	32.300	26.00
2	140	-1.42	32.350	26.04

STATION AR1-037

OBSERVED VALUES

DATE 11/06/60 HR 03 LAT 74-30N LONG 149-57W SDG BTMCODE
 WVEL DIR 10 FC 03 BA 32 DRY -30.1 WET -31.1 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SECDTI LD

CAST	DEPTH	TEMP*	SAL*	SIGMA-T
2	4	-1.60	29.781	23.97
2	10	-1.62	29.490	23.73
2	20	-1.62	29.470	23.71
2	30	-1.64	29.470	23.71
2	40	-1.51	30.320	24.40
2	50	-1.35	30.620	24.64
2	75	-1.33	31.380	25.25
2	100	-1.25	32.026	25.77
2	150	-1.41	32.690	26.32
2	200	-1.44	33.320	26.83
1	250	-0.82	34.386	27.67
1	300	-0.14	34.762	27.94
1	400	0.33	34.960	28.08
1	500	0.45	35.040	28.13
1	600	0.29	35.130	28.22
1	800	0.16	35.180	28.26
1	1000	-0.05	35.160	28.26
1	1200	-0.20	35.165	28.27

STATION AR1-038

OBSERVED VALUES

DATE 11/06/60 HR 05 LAT 74-30N LONG 149-58W SDG BTMCODE
 WVEL DIR 10 FC 03 BA 30 DRY -28.5 WET -29.5 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SECDTI LD

CAST	DEPTH	TEMP*	SAL*	SIGMA-T
1	40	-1.50	29.610	23.83
1	45	-1.38	30.354	24.43
1	55		30.740	
1	60	-1.24	30.998	24.94
1	65	-1.26	31.106	25.03
1	70	-1.29	31.276	25.17
1	80	-1.28	31.460	25.32
1	85	-1.20	31.580	25.41
1	90	-1.18	31.730	25.53
1	95	-1.22	31.846	25.63
2	105	-1.28	32.050	25.79
2	110	-1.28	32.180	25.90
2	115	-1.29	32.230	25.94
2	120	-1.34	32.310	26.01
2	130	-1.39	32.500	26.16
2	135	-1.37	32.510	26.17
2	140	-1.40	32.600	26.24

S A F E T Y M I L L S

STATION AR1-033

OBSERVED VALUES

DATE 11/08/60 HR 00 LAT 74-28N LONG 150-03W SDG BTM CODE
 WVEL DIR 29 FC 03 RA 38 DRY -30.8 WET -31.9 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.61	29.300	23.58
2	10	-1.61	29.270	23.55
2	20	-1.62	29.270	23.55
2	30	-1.65	29.290	23.57
2	40	-1.58	29.460	23.71
2	50	-1.36	30.520	24.56
2	75	-1.33	31.180	25.09
2	100	-1.22	31.840	25.62
2	150	-1.41	32.564	26.21
2	200	-1.43	33.174	26.71
1	250	-0.77	34.130	27.46
1	300	-0.15	34.588	27.80
1	400	0.32	34.750	27.91
1	500	0.49	34.792	27.93
1	600	0.42	34.858	27.99
1	800	0.13	34.850	28.00
1	1000	-0.07	34.880	28.03
1	1200	-0.20	34.890	28.05

STATION AR1-040

OBSERVED VALUES

DATE 11/08/60 HR 02 LAT 74-27N LONG 150-03W SDG BTM CODE
 WVEL DIR 28 FC 02 RA 38 DRY -32.0 WET -33.1 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	40	-1.60	29.528	23.76
1	45	-1.39	30.242	24.34
1	55		30.730	
1	60	-1.26	30.870	24.84
1	65	-1.20	31.050	24.98
1	70	-1.21	31.120	25.04
1	80	-1.32	31.444	25.31
1	85	-1.16	31.568	25.40
1	90	-1.22	31.670	25.49
1	95	-1.18	31.790	25.58
2	105	-1.25	32.094	25.83
2	110	-1.29	32.201	25.92
2	115	-1.31	32.250	25.96
2	120	-1.36	32.295	26.00
2	130	-1.39	32.300	26.00
2	135	-1.36	32.386	26.07
2	140	-1.40	32.536	26.19

STATION AR1-041

OBSERVED VALUES

DATE 11/11/60 HR 04 LAT 74-21N LONG 150-15W SDG BTM CODE
 WVEL DIR 30 FC 02 BA 27 DRY -17.6 WET -18.4 RELHU VIS 6
 WEA 78 CL 6 AMT 8 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.61		
2	10	-1.65		
2	20	-1.63		
2	30	-1.66		
2	40	-1.68		
2	50	-1.68		
2	75	-1.51		
2	100	-1.24		
2	150	-1.39		
2	200	-1.46		
1	250	-0.86		
1	300	-0.10		
1	400	0.33		
1	500	0.45		
1	600	0.40		
1	800	0.14		
1	1000	-0.07		
1	1200	-0.24		

STATION AR1-042

OBSERVED VALUES

DATE 11/11/60 HR 06 LAT 74-20N LONG 150-18W SDG BTM CODE
 WVEL DIR 30 FC 02 BA 27 DRY -17.6 WET -18.4 RELHU VIS 6
 WEA 78 CL 6 AMT 8 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.64		
1	55	-1.55		
1	60	-1.47		
1	65	-1.50		
1	70	-1.30		
1	80	-1.39		
1	85	-1.42		
1	90	-1.28		
1	95	-1.26		
2	105	-1.22		
2	110	-1.28		
2	115	-1.29		
2	120	-1.35		
2	130	-1.38		
2	135	-1.35		
2	140	-1.42		

STATION AR1-043

OBSERVED VALUES

DATE 11/12/60 HR 01 LAT 74-18N LONG 150-22W SDG BTMCODE
 WVEL DIR 18 FC 03 BA 17 DRY -28.9 WET -29.6 RELHU VIS 6
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SECDTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.51		
2	10	-1.63		
2	20	-1.63		
2	30	-1.68		
2	40	-1.66		
2	50	-1.67		
2	75	-1.45		
2	100	-1.26		
2	150	-1.41		
2	200	-1.43		
1	250	-0.93		
1	300	-0.12		
1	400	0.36		
1	500	0.49		
1	600	0.41		
1	800	0.14		
1	1000	-0.07		
1	1200	-0.22		

STATION AR1-044

OBSERVED VALUES

DATE 11/12/60 HR 02 LAT 74-18N LONG 150-23W SDG BTMCODE
 WVEL DIR 18 FC 03 BA 17 DRY -28.9 WET -29.6 RELHU VIS 6
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SECDTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.65		
1	55	-1.55		
1	60	-1.47		
1	65	-1.46		
1	70	-1.44		
1	80	-1.48		
1	85	-1.40		
1	90	-1.29		
1	95	-1.27		
2	105	-1.25		
2	110	-1.27		
2	115	-1.29		
2	120	-1.34		
2	130	-1.39		
2	135	-1.38		
2	140	-1.39		

STATION ARI-047

OBSERVED VALUES

DATE 11/17/60 HR 02 LAT 74-12N LONG 151-18W SDG BTM CODE
 WVEL DIR 08 FC 03 RA 14 DRY -32.8 WET -33.8 RELHU VIS 7
 WEA 00 CL 0 AMT 3 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.64		
2	10	-1.64		
2	20	-1.64		
2	30	-1.69		
2	40	-1.66		
2	50	-1.59		
2	75	-1.44		
2	100	-1.16		
2	150	-1.41		
2	200	-1.40		
1	250	-0.72		
1	300	-0.11		
1	400	0.37		
1	500	0.49		
1	600	0.37		
1	800	0.15		
1	1000	-0.08		
1	1200	-0.23		

STATION ARI-048

OBSERVED VALUES

DATE 11/17/60 HR 04 LAT 74-16N LONG 151-23W SDG BTM CODE
 WVEL DIR 06 FC 00 RA 14 DRY -32.8 WET 34.1 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.65		
1	55	-1.55		
1	60	-1.38		
1	65	-1.23		
1	70	-1.36		
1	80	-1.52		
1	85	-1.19		
1	90	-1.24		
1	95	-1.15		
2	105	-1.24		
2	110	-1.25		
2	115	-1.28		
2	120	-1.34		
2	130	-1.37		
2	135	-1.35		
2	140	-1.40		

STATION AR1-049

OBSERVED VALUES

DATE 11/19/60 HR 02 LAT 74-16N LONG 151-51W SDG BTM CODE
 WVEL DIR 07 FC 03 BA 16 DRY -29.3 WET -30.5 RELHU VIS 7
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.63		
2	10	-1.64		
2	20	-1.66		
2	30	-1.67		
2	40	-1.67		
2	50	-1.66		
2	75	-1.46		
2	100	-1.20		
2	150	-1.40		
2	200	-1.42		
1	250	-0.71		
1	300	-0.12		
1	400	0.28		
1	500	0.50		
1	600	0.40		
1	800	0.08		
1	1000	-0.11		
1	1200	-0.27		

STATION AR1-050

OBSERVED VALUES

DATE 11/19/60 HR 04 LAT 74-16N LONG 151-55W SDG BTM CODE
 WVEL DIR 07 FC 00 BA 16 DRY -30.1 WET -31.3 RELHU VIS 7
 WEA 00 CL 0 AMT 1 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.64		
1	55	-1.58		
1	60	-1.30		
1	65	-1.35		
1	70	-1.29		
1	80	-1.50		
1	85	-1.31		
1	90	-1.16		
1	95	-1.15		
2	105	-1.29		
2	110	-1.26		
2	115	-1.28		
2	120	-1.34		
2	130	-1.39		
2	135	-1.37		
2	140	-1.41		

STATION AR1-051

OBSERVED VALUES

DATE 11/25/60 HR 04 LAT 74-03N LONG 152-10W SDG BTM CODE
 WVEL DIR 10 FC 03 BA 19 DRY -25.1 WET * RELHU VIS 5
 WEA 78 CL 6 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.56	30.080	24.21
2	10	-1.62	30.106	24.23
2	20	-1.68	30.110	24.23
2	30	-1.70	30.160	24.27
2	40	-1.68	30.160	24.27
2	50	-1.58	30.160	24.27
2	75	-1.42	31.344	25.23
2	100	-1.31	31.974	25.73
2	150	-1.41	32.670	26.30
2	200	-1.46	33.230	26.75
1	250	-0.79	34.170	27.49
1	300	-0.17	34.566	27.79
1	400	0.37	34.734	27.89
1	500	0.50	34.774	27.92
1	600	0.44	34.824	27.96
1	800	0.10	34.850	28.00
1	1000	-0.06	34.850	28.01
1	1200	-0.21	34.850	28.02

STATION AR1-052

OBSERVED VALUES

DATE 11/25/60 HR 07 LAT 74-04N LONG 152-10W SDG BTM CODE
 WVEL DIR 10 FC 03 BA 19 DRY -25.1 WET * RELHU VIS 5
 WEA 78 CL 6 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.65	30.200	24.31
1	55	-1.48	30.886	24.86
1	60	-1.49	31.010	24.96
1	65	-1.46	31.150	25.07
1	70	-1.45	31.256	25.16
1	80	-1.37	31.440	25.30
1	85	-1.31	31.610	25.44
1	90	-1.23	31.686	25.50
1	95	-1.29	31.830	25.62

STATION AR1-053

OBSERVED VALUES

DATE 11/29/60 HR 03 LAT 74-19N LONG 153-23W SDG BTM CODE
 WVEL DIR 13 FC 03 BA 07 DRY- 21 7 WET * RELHU VIS 6
 WEA 02 CL 6 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.65	29.896	24.06
2	10	-1.66	29.970	24.12
2	20	-1.67	30.075	24.20
2	30	-1.69	30.066	24.20
2	40	-1.67	30.165	24.28
2	50	-1.66	30.226	24.33
2	75	-1.38	31.146	25.07
2	100	-1.24	32.014	25.76
2	150	-1.42	32.738	26.36
2	200	-1.42	33.380	26.87
1	250	-0.86	34.228	27.54
1	300	-0.18	34.590	27.81
1	400	0.38	34.720	27.88
1	500	0.51	34.750	27.90
1	600	0.43	34.788	27.93
1	800	0.15	34.820	27.97
1	1000	-0.06	34.830	27.99
1	1200	-0.20	34.860	28.02

STATION AR1-054

OBSERVED VALUES

DATE 11/29/60 HR 07 LAT 74-19N LONG 153-27W SDG BTM CODE
 WVEL DIR 16 FC 03 BA 07 DRY- 23.3 WET * RELHU VIS 5
 WEA 78 CL 6 AMT 6 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.66	30.200	24.31
1	55	-1.61	30.360	24.43
1	60	-1.36	30.756	24.75
1	65	-1.37	31.060	25.00
1	70	-1.38	31.158	25.08
1	80	-1.24	31.465	25.32
1	85	-1.17	31.560	25.40
1	90	-1.13	31.756	25.55
1	95	-1.25	31.922	25.69
2	105	-1.27	32.200	25.92
2	110	-1.29	32.386	26.07
2	115	-1.32	32.390	26.07
2	120	-1.36	32.550	26.20
2	125	-1.38	32.620	26.26
2	130	-1.36	32.746	26.36
2	135	-1.41	32.745	26.36

STATION AR1-055

OBSERVED VALUES

DATE	11/30/60	HR	02	LAT	74-19N	LONG	153-39W	SDG	BTMCODE
WVEL	DIR	FC		BA	DRY	*	WET	RELHU	VIS
WEA	CL	AMT		SEA	DIR	SWL	DIR	SECDI	LD
CAST	DEPTH	TEMP.		SAL.	SIGMA-T				
2	4	-1.65		29.922	24.08				
2	10	-1.65		29.954	24.11				
2	20	-1.68		30.190	24.30				
2	30	-1.70		30.160	24.27				
2	40	-1.69		30.122	24.24				
2	50	-1.64		30.240	24.34				
2	75	-1.40		31.265	25.16				
2	100	-1.21		31.956	25.72				
2	150	-1.41		32.730	26.35				
2	200	-1.38		33.400	26.89				
1	250	-0.66		34.550	27.79				
1	300	-0.12		34.780	27.96				
1	400	0.36		35.070	28.16				
1	500	0.51		35.090	28.17				
1	600	0.45		35.090	28.17				
1	800	0.19		35.090	28.19				
1	1000	-0.05		35.080	28.19				
1	1200	-0.20		35.082	28.20				

STATION AR1-056

OBSERVED VALUES

DATE	11/30/60	HR	05	LAT	74-19N	LONG	153-40W	SDG	BTMCODE
WVEL	DIR	FC		BA	DRY	*	WET	RELHU	VIS
WEA	CL	AMT		SEA	DIR	SWL	DIR	SECDI	LD
CAST	DEPTH	TEMP.		SAL.	SIGMA-T				
1	45	-1.66		30.160	24.27				
1	55	-1.57		30.330	24.41				
1	60	-1.52		30.870	24.85				
1	65	-1.51		31.056	25.00				
1	70	-1.37		31.112	25.04				
1	80	-1.35		31.338	25.22				
1	85	-1.28		31.460	25.32				
1	90	-1.23		31.643	25.46				
1	95	-1.25		31.720	25.53				
2	105	-1.25		31.976	25.73				
2	110	-1.28		32.050	25.79				
2	115	-1.33		32.220	25.93				
2	120	-1.38		32.290	25.99				
2	125	-1.39		32.410	26.09				
2	130	-1.37		32.440	26.11				
2	135	-1.42		32.510	26.17				

STATION AR1-057

OBSERVED VALUES

DATE 12/03/60 HR 02 LAT 4-10N LONG 154-25W SDG BTM CODE
 WVEL DIR 03 FC 03 BA 31 DRY- 34.9 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.61	29.380	23.64
2	10	-1.61	29.400	23.66
2	20	-1.63	29.380	23.64
2	30	-1.69	30.190	24.30
2	40	-1.67	30.260	24.35
2	50	-1.36	30.990	24.94
2	75	-1.28	31.780	25.58
2	100	-1.32	32.300	26.00
2	150		32.810	
2	200		33.100	
1	250	-1.00	33.958	27.33
1	300	-0.19	34.650	27.85
1	400	0.39	34.750	27.90
1	500	0.50	34.850	27.98
1	600	0.38	34.880	28.01
1	800	0.09	34.880	28.02
1	1000	-0.07	34.890	28.04
1	1200	-0.17	34.900	28.05

STATION AR1-058

OBSERVED VALUES

DATE 12/03/60 HR 05 LAT 74-09N LONG 154-26W SDG BTM CODE
 WVEL DIR 03 FC 02 BA 34 DRY -33.0 WET -34.3 RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.44	30.820	24.80
1	55	-1.39	31.280	25.17
1	60	-1.40	31.265	25.16
1	65	-1.35	31.465	25.32
1	70	-1.27	31.650	25.47
1	80	-1.25	31.985	25.74
1	85	-1.34	32.030	25.78
1	90	-1.25	32.160	25.88
1	95	-1.29	32.250	25.96
2	105	-1.35	32.436	26.11
2	110	-1.37	32.474	26.14
2	115	-1.36	32.530	26.19
2	120	-1.39	32.590	26.23
2	125	-1.35	32.632	26.27
2	130	-1.26	32.740	26.35
2	135	-1.22	32.780	26.38

STATION AR1-059

OBSERVED VALUES

DATE 12/04/60 HR 03 LAT 74-08N LONG 154-40W SDG BTM CODE
 WVEL DIR 07 FC 03 RA 41 DRY -31.3 WET -32.6 RELHU VIS 6
 WEA 01 CL 5 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	4	-1.60	29.135	23.44
1	10	-1.60	29.150	23.45
1	20	-1.56	29.868	24.04
1	30	-1.58	30.250	24.34
1	40	-1.53	30.640	24.66
1	50	-1.38	31.040	24.98
1	75	-1.29	31.680	25.50
1	100	-1.23	32.260	25.96
1	150	-1.42	32.810	26.41
1	200	-1.42	33.360	26.86

STATION AR1-060

OBSERVED VALUES

DATE 12/04/60 HR 06 LAT 74-08N LONG 154-42W SDG BTM CODE
 WVEL DIR 07 FC 03 RA 41 DRY -31.3 WET -32.6 RELHU VIS 6
 WEA 01 CL 5 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	55	-1.45	31.160	25.08
1	60	-1.49	31.236	25.14
1	65	-1.44	31.348	25.23
1	70	-1.32	31.460	25.32
1	80	-1.28	31.970	25.73
1	85	-1.33	32.050	25.80
1	90	-1.22	32.120	25.85
1	95	-1.35	32.180	25.90

STATION AR1-063

OBSERVED VALUES

DATE 12/12/60 HR 03 LAT 74-11N LONG 157-00W SDG BTM CODE
 WVEL DIR 28 FC 03 BA 07 DRY WET * RELHU VIS 5
 WEA 01 CL 0 AMT 2 SEA DIR SWL DIR * SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.53	30.632	24.65
1	55	-1.47	31.182	25.10
1	60	-1.51	31.326	25.21
1	65	-1.52	31.280	25.18
1	70	-1.45	31.465	25.33
1	80	-1.27	31.740	25.54
1	85	-1.23	31.872	25.65
1	90		31.990	
1	95	-1.27	32.136	25.86
2	105	-1.33	32.332	26.02
2	110	-1.35	32.460	26.13
2	115	-1.38	32.496	26.16
2	120	-1.40	32.620	26.26
2	125	-1.41	32.550	26.20
2	130	-1.38	32.658	26.29
2	135	-1.41	32.712	26.33

STATION AR1-064

OBSERVED VALUES

DATE 12/21/60 HR 02 LAT 74-26N LONG 157-59W SDG BTM CODE
 WVEL DIR 07 FC 03 BA 26 DRY WET * RELHU VIS 6
 WEA 02 CL 0 AMT 6 SEA DIR SWL DIR * SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.54	28.270	22.74
2	10	-1.54	28.306	22.77
2	20	-1.59	29.012	23.34
2	30	-1.68	30.116	24.24
2	40	-1.61	30.470	24.52
2	50	-1.44	31.175	25.09
2	75	-1.37	31.692	25.51
2	100	-1.28	32.222	25.93
2	150	-1.44	32.898	26.49
2	200	-1.41	33.578	27.04
1	250	-0.58	34.386	27.66
1	300	-0.06	34.666	27.86
1	400	0.40	34.820	27.96
1	500	0.51	34.880	28.00
1	600	0.40	34.940	28.06
1	800	0.17	34.940	28.07
1	1000	-0.07	34.946	28.09
1	1200	-0.19	34.950	28.10

STATION AR1-065

OBSERVED VALUES

DATE 12/21/60 HR 06 LAT 74-27N LONG 158-03W SDG BTM CODE
 WVEL DIR 06 FC 03 RA 22 DRY * WET * RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.45	30.815	24.80
1	55	-1.46	31.160	25.08
1	60	-1.50	31.212	25.12
1	65	-1.51	31.362	25.24
1	70	-1.44	31.320	25.21
1	80	-1.34	31.686	25.50
1	85	-1.26	31.832	25.62
1	90	-1.23	32.030	25.78
1	95	-1.27	32.196	25.91
2	105	-1.33	32.230	25.94
2	110	-1.33	32.372	26.06
2	115	-1.36	32.500	26.16
2	120	-1.42	32.550	26.20
2	125	-1.41	32.586	26.23
2	130	-1.40	32.653	26.29
2	135	-1.43	32.670	26.30

STATION AR1-066

OBSERVED VALUES

DATE 12/21/60 HR 08 LAT 74-27N LONG 158-02W SDG BTM CODE
 WVEL DIR 06 FC 03 RA 22 DRY- 24.6 WET * RELHU VIS 7
 WEA 00 CL 0 AMT 0 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	250	-0.60	34.335	27.62
1	300	-0.08	34.646	27.85
1	400	0.41	34.820	27.96
1	500	0.52	34.900	28.02
1	600	0.38	34.900	28.02
1	800	0.10	34.900	28.04
1	1000	-0.09	34.900	28.05
1	1200	-0.21	34.900	28.06

STATION AR1-069

OBSERVED VALUES

DATE 12/30/60 HR 01 LAT 74-44N LONG 161-10W SDG BTM CODE
 WVEL DIR 05 FC 04 BA 33 DRY- 25.8 WET * RELHU VIS 4
 WEA 08 CL 0 AMT 6 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.52	27.653	22.24
2	10	-1.51	27.762	22.33
2	20	-1.53	27.780	22.35
2	30	-1.60	30.340	24.42
2	40	-1.50	31.110	25.04
2	50	-1.56	31.280	25.18
2	75	-1.48	31.740	25.55
2	100	-1.36	32.410	26.09
1	150	-1.46	33.180	26.71
1	200	-1.48	33.672	27.11
1	250	-0.56	34.356	27.83
1	300	-0.05	34.650	27.85
1	400	0.45	34.842	27.97
1	500	0.52	34.870	27.99
1	600	0.34	34.896	28.02
1	800	0.06	34.930	28.07
1	1000	-0.14	34.930	28.08
1	1200	-0.26	34.930	28.08

STATION AR1-070

OBSERVED VALUES

DATE 12/30/60 HR 06 LAT 74-44N LONG 161-10W SDG BTM CODE
 WVEL DIR 04 FC 03 BA 34 DRY- 25.7 WET * RELHU VIS 5
 WEA 78 CL 0 AMT 6 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.50	31.216	25.13
1	55	-1.57	31.140	25.06
1	60	-1.57	31.430	25.30
1	65	-1.56	31.464	25.33
1	70	-1.51	31.559	25.40
1	80	-1.44	31.900	25.68
1	85	-1.35	32.112	25.85
1	90	-1.46	32.162	25.89
1	95	-1.33	32.280	25.98
2	105	-1.37	32.426	26.10
2	110	-1.40	32.480	26.15
2	115	-1.39	32.602	26.24
2	120	-1.44	32.610	26.25
2	125	-1.44	32.698	26.32
2	130	-1.41	32.768	26.38
2	135	-1.46	32.835	26.43

STATION AR1-071

OBSERVED VALUES

DATE 01/01/61 HR 03 LAT 74-42N LONG 161-35W SDG BTM CODE
 WVEL DIR 06 FC 03 BA 36 DRY- 29.9 WET RELHU VIS 5
 WEA 02 CL 0 AMT 5 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.51	27.842	22.40
	10	-1.51	27.840	22.39
	20	-1.55	28.680	23.07
	30	-1.66	30.208	24.31
2	40	-1.51	30.946	24.91
	50	-1.55	31.246	25.15
	75	-1.40	31.620	25.45
	100	-1.38	32.450	26.12
2	150	-1.48	32.986	26.56
	200	-1.46	33.636	27.08
	250	-0.56	34.490	27.74
	300	-0.01	34.680	27.87
1	400	0.46	34.730	27.88
	500	0.49	34.785	27.93
	600	0.31	34.840	27.98
	800	0.05	34.890	28.00
	1000	-0.13	34.900	28.05
	1200	-0.25	34.920	28.07

STATION AR1-072

OBSERVED VALUES

DATE 01/01/61 HR 06 LAT 74-42N LONG 161-37W SDG BTM CODE
 WVEL DIR 07 FC 03 BA 34 DRY- 31.6 WET RELHU VIS 7
 WEA 01 CL 0 AMT 2 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.50	31.144	25.07
	55	-1.53	31.326	25.21
	60	-1.59	31.530	25.38
	65	-1.55	31.570	25.41
1	70	-1.47	31.566	25.41
	80	-1.36	32.005	25.76
	85	-1.28	32.110	25.84
	90	-1.36	32.286	25.99
1	95	-1.34	32.346	26.04
2	105	-1.43	32.582	26.23
2	110	-1.44	32.700	26.32
2	115	-1.45	32.790	26.40
2	120	-1.45	32.896	26.48
2	125	-1.45	32.876	26.47
2	130	-1.44	32.930	26.51
2	135	-1.45	33.050	26.61

STATION AR1-073

OBSERVED VALUES

DATE 01/04/61 HR 02 LAT 74-40N LONG 162-17W SDG BTM CODE
 WVEL DIR 04 FC 03 BA 23 DRY- 34.7 WET * RELHU VIS 7
 WEA 01 CL 0 AMT 2 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	4	-0.50	27.960	22.47
	10	-0.49	27.946	22.46
	20	-0.33	28.123	22.60
	30	-1.66	30.180	24.29
2	40	-1.55	30.926	24.89
	50	-1.60	31.288	25.19
	75	-1.47	31.940	25.71
	100	-1.44	32.512	26.17
3	150	-1.53	33.180	26.72
	200	-1.30	33.778	27.19
	250	-0.33	34.490	27.73
	300	0.07	34.695	27.88
4	400	0.48	34.830	27.96
	500	0.49	34.878	28.00
	600	0.32	34.910	28.04
	800	0.05	34.920	28.06
5	1000	-0.13	34.926	28.07
	1200	-0.24	34.960	28.11

STATION AR1-074

OBSERVED VALUES

DATE 01/04/61 HR 02 LAT 74-39N LONG 162-18W SDG BTM CODE
 WVEL DIR 05 FC 03 BA 23 DRY- 34.4 WET * RELHU VIS 7
 WEA 01 CL 0 AMT 1 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.51	31.200	25.11
	55	-1.59	31.370	25.25
	60	-1.62	31.465	25.33
	65	-1.57	31.610	25.45
2	70	-1.61	31.740	25.55
	80	-1.45	32.066	25.81
	95	-1.38	32.196	25.92
	90	-1.36	32.300	26.00
3	95	-1.39	32.440	26.11
	105	-1.44	32.570	26.22
	110	-1.47	32.640	26.28
	115	-1.59	32.710	26.34
4	120	-1.49	32.806	26.41
	125	-1.49	32.886	26.48
	130	-1.44	32.934	26.51
	135	-1.50	33.006	26.57

STATION AR1-077

OBSERVED VALUES

DATE 01/11/61 HR 00 LAT 74-42N LONG 163-17W SDG BTM CODE
 WVEL DIR 10 FC 03 RA 40 DRY -30.6 WET
 WEA 01 CL AMT 0 SEA DIR SWL DIR RELHU VIS 7
 SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.55	27.838	22.39
2	10	-1.51	27.844	22.40
2	20	-1.55	27.916	22.46
2	30	-1.63	30.240	24.34
2	40	-1.66	31.056	25.00
2	50	-1.57	31.340	25.23
2	75	-1.46	32.120	25.86
2	100	-1.42	32.640	26.28
2	150	-1.58	33.215	26.75
2	200	-1.26	33.800	27.21
1	250	-0.29	34.496	27.73
1	300	-0.02	34.760	27.93
1	400	0.48	34.798	27.94
1	500	0.49	34.798	27.94
1	600	0.30	34.856	27.99
1	800	0.05	34.898	28.04
1	1000	-0.14	34.898	28.05
1	1200	-0.26	34.898	28.06

STATION AR1-078

OBSERVED VALUES

DATE 01/11/61 HR 02 LAT 74-42N LONG 163-17W SDG BTM CODE
 WVEL DIR 11 FC 03 RA 39 DRY -37.2 WET
 WEA 00 CL AMT 0 SEA DIR SWL DIR RELHU VIS 7
 SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.52	31.220	25.13
1	55	-1.56	31.390	25.27
1	60	-1.57	31.534	25.38
1	65	-1.46	31.700	25.52
1	70	-1.36	31.900	25.68
1	80	-1.41	32.230	25.94
1	85	-1.39	32.370	26.06
1	90	-1.36	32.470	26.14
1	95	-1.40	32.566	26.22
2	105	-1.44	32.660	26.29
2	110	-1.45	32.745	26.36
2	115	-1.44	32.780	26.39
2	120	-1.49	32.800	26.41
2	125	-1.48	32.880	26.47
2	130	-1.45	32.950	26.53
2	135	-1.48	33.020	26.59

STATION AR1-079

OBSERVED VALUES

DATE 01/14/61 HR 00 LAT 74-41N LONG 163-33W SDG BTM CODE
 WVEL DIR 34 FC 03 BA 21 DRY -36.6 WET RELHU VI 7
 WEA 03 CL AMT 4 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.54	27.832	22.39
	10	-1.52	27.858	22.41
	20	-1.56	27.898	22.44
	30	-1.63	30.046	24.18
	40	-1.58	30.810	24.80
	50	-1.65	31.256	25.16
	75	-1.46	32.180	25.90
	100	-1.43	32.686	26.31
	150	-1.50	33.300	26.81
	200	-1.14	34.036	27.40
	250	-0.28	34.586	27.81
1	300	0.15	34.696	27.87
1	400	0.49	34.766	27.91
1	500	0.47	34.874	28.00
1	600	0.27	34.880	28.01
1	800	0.04	34.880	28.03
1	1000	-0.13	34.880	28.04
1	1200	-0.26	34.910	28.07

STATION AR1-080

OBSERVED VALUES

DATE 01/14/61 HR 02 LAT 74-41N LONG 163-33W SDG BTM CODE
 WVEL DIR 35 FC 03 BA 18 DRY -31.1 WET RELHU VIS 6
 WEA 76 CL 6 AMT 8 SEA DIR SWL DIR SEC DTI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.53	31.198	25.11
1	55	-1.63	31.456	25.32
1	60	-1.61	31.540	25.39
1	65	-1.55	31.880	25.66
1	70	-1.48	32.040	25.79
1	80	-1.43	32.320	26.02
1	85	-1.41	32.420	26.10
1	90	-1.37	32.500	26.16
1	95	-1.42	32.610	26.25
2	105	-1.47	32.660	26.29
2	110	-1.46	32.758	26.37
2	115	-1.45	32.838	26.44
2	120	-1.48	32.860	26.46
2	125	-1.50	32.896	26.49
2	130	-1.46	33.010	26.58
2	135	-1.51	33.060	26.62

STATION AR1-081

OBSERVED VALUES

DATE 01/16/61 HR 23 LAT 74-33N LONG 163-53W SDG 0747 BTM CODE
 WVEL DIR 06 FC 02 BA 20 DRY -27.9 WET RELHU VIS 6
 WEA 02 CL 6 AMT 7 SEA DIR \$WL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.54	27.896	22.44
2	10	-1.54	27.920	22.46
2	20	-1.57	28.470	22.90
2	30	-1.66	30.196	24.30
		-		
	40	-1.63	30.790	24.78
	50	-1.71	31.196	25.11
	75	-1.52	32.040	25.79
	100	-1.57	32.716	26.34
2	150	-1.64	33.366	26.87
2	200	-0.82	34.230	27.54
1	250	-0.13	34.650	27.85
1	300	0.23	34.760	27.92
1	400	0.42	34.830	27.97
1	500	0.48	34.900	28.02
1	600	0.32	34.900	28.03
1	700	0.16	34.900	28.04

STATION AR1-082

OBSERVED VALUES

DATE 01/17/61 HR 01 LAT 74-33N LONG 163-53W SDG 0747 BTM CODE
 WVEL DIR 06 FC 02 BA 20 DRY -27.9 WET RELHU VIS 6
 WEA 02 CL 6 AMT 7 SEA DIR \$WL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.52	31.000	24.95
1	55	-1.70	31.260	25.16
1	60	-1.71	31.465	25.33
1	65	-1.62	31.616	25.45
1	70	-1.55	31.802	25.60
1	80	-1.50	32.250	25.96
1	85	-1.46	32.430	26.11
1	90	-1.43	32.516	26.18
1	95	-1.43	32.610	26.25
2	105	-1.51	32.748	26.37
2	110	-1.61	32.833	26.44
2	115	-1.55	32.900	26.49
2	120	-1.54	32.956	26.53
2	125	-1.48	33.046	26.61
2	130	-1.54	33.150	26.69
2	135	-1.56	33.190	26.72

S A F E T Y M I L E S

STATION AR1-083

OBSERVED VALUES

DATE 01/19/61 HR 23 LAT 74-33N LONG 164-22W SDG BTM CODE
 WVEL DIR 18 FC 03 RA 33 DRY -34.4 WET RELHU VIS 7
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	4	-1.52	27.898	22.44
1	10	-1.53	27.910	22.45
1	20	-1.62	29.040	23.37
1	30	-1.67	30.286	24.38
1	40	-1.66	30.870	24.85
1	50	-1.73	31.178	25.10
1	75	-1.50	32.080	25.82
1	100	-1.44	32.720	26.34
1	150	-1.68	33.358	26.86
2	200	-0.76	34.200	27.52
2	250	-0.15	34.603	27.81
2	300	0.22	34.785	27.94
2	400	0.52	34.860	27.98
2	500	0.45	34.920	28.04
2	600	0.30	34.920	28.05

STATION AR1-084

OBSERVED VALUES

DATE 01/20/61 HR 01 LAT 74-33N LONG 164-22W SDG BTM CODE
 WVEL DIR 18 FC 03 RA 33 DRY -34.4 WET RELHU VIS 7
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.69	31.030	24.98
1	55	-1.69	31.326	25.22
1	60	-1.63	31.490	25.35
1	65	-1.60	31.650	25.48
1	70	-1.58	31.898	25.68
1	80	-1.55	32.270	25.98
1	85	-1.43	32.420	26.10
1	90	-1.39	32.540	26.19
1	95	-1.40	32.650	26.28
2	105	-1.49	32.826	26.43
2	110	-1.53	32.882	26.47
2	115	-1.50	32.940	26.52
2	120	-1.53	32.970	26.55
2	125	-1.57	33.110	26.66
2	130	-1.52	33.210	26.74
2	135	-1.53	33.256	26.78

STATION AR1-085

OBSERVED VALUES

DATE 01/22/61 HR 21 LAT 74-42N LONG 165-15W SDG 0418 BTM CODE
 WVEL DIR 20 FC 04 RA 08 DRY -18.0 WET RELHU VIS 7
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.56	28.322	22.78
2	10	-1.58	28.380	22.83
2	20	-1.57	28.370	22.82
2	30	-1.62	29.180	23.48
2	40	-1.67	30.150	24.26
2	50	-1.62	30.950	24.91
2	75	-1.51	31.996	25.76
1	100	-1.50	32.920	26.50
1	150	-1.54	33.480	26.96
1	200	-0.50	34.440	27.70
1	250	-0.04	34.690	27.88
1	300	0.34	34.730	27.89
1	350	0.44	34.830	27.96
1	400	0.51	34.866	27.99

STATION AR1-086

OBSERVED VALUES

DATE 01/23/61 HR 00 LAT 74-43N LONG 165-15W SDG 0418 BTM CODE
 WVEL DIR 20 FC 04 RA 08 DRY -18.0 WET RELHU VIS 7
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.60	30.290	24.38
1	55	-1.61	31.038	24.98
1	60	-1.67	31.290	25.19
1	65	-1.62	31.440	25.31
1	70	-1.59	31.662	25.49
1	80	-1.52	32.360	26.05
1	85	-1.55	32.470	26.14
1	90	-1.54	32.650	26.29
1	95			
2	105	-1.56	32.950	26.53
2	110	-1.58	33.034	26.60
2	115	-1.60	33.136	26.68
2	120	-1.60	33.222	26.75
2	125	-1.59	33.270	26.79
2	130	-1.63	33.334	26.84
2	135			

STATION AR1-087

OBSERVED VALUES

DATE 01/25/61 HR 23 LAT 74-45N LONG 165-20W SDG BTM CODE
 WVEL DIR 05 FC 03 RA 40 DRY -22.6 WET RELHU VIS 1
 WEA 41 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.56	28.286	22.76
2	10	-1.59	28.346	22.81
2	20	-1.59	28.350	22.81
2	30	-1.59	28.700	23.09
2	40	-1.68	29.976	24.12
2	50	-1.63	30.700	24.71
2	75	-1.53	31.900	25.68
2	100	-1.67	32.808	26.42
1	150	-1.39	33.768	27.19
1	200	-0.42	34.515	27.76
1	250	0.01	34.695	27.88
1	300	0.36	34.808	27.95
1	350	0.53	34.870	27.99
1	400	0.62	34.916	28.02

STATION AR1-088

OBSERVED VALUES

DATE 01/26/61 HR 01 LAT 74-45N LONG 165-20W SDG 0420 BTM CODE
 WVEL DIR 05 FC 03 RA 40 DRY -22.6 WET RELHU VIS 1
 WEA 41 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.62	30.442	24.50
1	55	-1.60	31.000	24.95
1	60	-1.64	31.276	25.18
1	65	-1.58	31.476	25.34
1	70	-1.60	31.660	25.49
1	80	-1.59	32.150	25.88
1	85	-1.56	32.290	26.00
1	90	-1.56	32.474	26.14
1	95	-1.63	32.660	26.30
2	105	-1.72	32.990	26.57
2	110	-1.72	33.076	26.64
2	115	-1.71	33.166	26.71
2	120	-1.73	33.270	26.79
2	125	-1.68	33.372	26.88
2	130	-1.60	33.460	26.94
2	135	-1.59	33.506	26.98

STATION AR1-089

OBSERVED VALUES

DATE 01/28/61 HR 23 LAT 74-53N LONG 165-58W SDG BTM CODE
 WVEL DIR 12 FC 03 RA 37 DRY -13.8 WET RELHU VIS 5
 WEA 28 CL 0 AMT 8 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TFMP.	SAL.	SIGMA-T
2	4	-1.57	28.366	22.82
2	10	-1.61	28.395	22.84
2	20	-1.59	28.602	23.01
2	30	-1.64	29.910	24.07
2	40	-1.65	30.676	24.69
2	50	-1.62	31.256	25.16
2	75	-1.46	32.120	25.86
2	100	-1.43	32.720	26.34
1	150	-1.65	33.370	26.87
1	200	-0.69	34.390	27.67
1	250	-0.15	34.670	27.87
1	300	0.28	34.780	27.93
1	350	0.50	34.806	27.94
1	400	0.65	34.936	28.04

STATION AR1-090

OBSERVED VALUES

DATE 01/29/61 HR 01 LAT 74-53N LONG 165-58W SDG BTM CODE
 WVEL DIR 12 FC 03 RA 37 DRY -13.8 WET RELHU VIS 5
 WEA 28 CL 0 AMT 8 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TFMP.	SAL.	SIGMA-T
1	45	-1.60	30.986	24.94
1	55	-1.62	31.310	25.20
1	60	-1.64	31.510	25.37
1	65	-1.67	31.706	25.52
1	70	-1.55	31.906	25.68
1	80	-1.45	32.290	25.99
1	85	-1.40	32.452	26.12
1	90	-1.39	32.530	26.19
1	95	-1.42	32.642	26.28
2	105	-1.50	32.786	26.40
2	110	-1.49	32.838	26.44
2	115	-1.47	32.920	26.50
2	120	-1.51	32.986	26.56
2	125	-1.50	33.062	26.62
2	130	-1.49	33.129	26.67
2	135	-1.61	33.150	26.69

STATION AR1-091

OBSERVED VALUES

DATE 01/31/61 HR 22 LAT 74-49N LONG 165-52W SDG 0458 BTMCODE
 WVEL DIR 32 FC 5 BA 12 DRY -29.1 WET RELHU VIS 5
 WEA 36 CL 6 AMT 1 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.55	28.030	22.55
2	10	-1.59	28.118	22.62
2	20	-1.63	29.440	23.69
2	30	-1.67	30.192	24.30
2	40	-1.73	30.730	24.74
2	50	-1.66	31.092	25.03
2	75	-1.50	31.990	25.75
2	100	-1.53	32.749	26.37
1	150	-1.59	33.410	26.90
1	200	-0.72	34.310	27.60
1	250	-0.10	34.660	27.86
1	300	0.27	34.790	27.94
1	350	0.53	34.840	27.97
1	400	0.49	34.904	28.02

STATION AR1-092

OBSERVED VALUES

DATE 02/01/61 HR 01 LAT 74-49N LONG 165-52W SDG 0458 BTMCODE
 WVEL DIR 32 FC 05 BA 12 DRY -29.1 WET RELHU VIS 5
 WEA 36 CL 6 AMT 1 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.68	30.846	24.83
1	55	-1.61	31.370	25.25
1	60	-1.63	31.465	25.33
1	65	-1.75	31.686	25.51
1	70	-1.71	31.844	25.64
1	80	-1.51	32.232	25.95
1	85	-1.47	32.456	26.13
1	90	-1.44	32.590	26.24
1	95	-1.50	32.660	26.29
2	105	-1.56	32.866	26.46
2	110	-1.56	32.930	26.51
2	115	-1.59	32.990	26.56
2	120	-1.61	32.996	26.57
2	125	-1.59	33.064	26.62
2	130	-1.56	33.220	26.75
2	135	-1.61	33.294	26.81

STATION AR1-093

OBSERVED VALUES

DATE 02/03/61 HR 23 LAT 74-45N LONG 165-48W SDG 0419 BTM CODE
 WVEL DIR 25 FC 03 BA 16 DRY -42.0 WET RELHU VIS 5
 WEA 10 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.810	23.18
2	10	-1.61	28.750	23.13
2	20	-1.61	28.856	23.22
2	30	-1.66	30.080	24.21
2	40	-1.71	30.862	24.84
2	50	-1.71	31.152	25.08
2	75	-1.49	31.940	25.71
2	100	-1.52	32.796	26.40
1	150	-1.55	33.530	27.00
1	200	-0.56	34.428	27.69
1	250	0.00	34.742	27.92
1	300	0.35	34.822	27.96
1	350	0.53	34.892	28.01
1	400	0.40	34.940	28.06

STATION AR1-094

OBSERVED VALUES

DATE 02/04/61 HR 01 LAT 74-45N LONG 165-48W SDG 0419 BTM CODE
 WVEL DIR 25 FC 03 BA 16 DRY -42.0 WET RELHU VIS 5
 WEA 10 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.65	30.966	24.93
1	55	-1.71	31.326	25.22
1	60	-1.71	31.530	25.38
1	65	-1.71	31.643	25.48
1	70	-1.62	31.796	25.60
1	80	-1.50	32.093	25.83
1	85	-1.54	32.270	25.98
1	90	-1.47	32.512	26.17
1	95	-1.47	32.640	26.28
2	105	-1.53	32.892	26.48
2	110	-1.55	32.936	26.52
2	115	-1.60	33.033	26.60
2	120	-1.67	33.176	26.72
2	125	-1.68	33.200	26.74
2	130	-1.65	33.280	26.80
2	135	-1.60	33.324	26.83

STATION AR1-095

OBSERVED VALUES

DATE 02/06/61 HR 22 LAT 74-46N LONG 165-37W SDG 0418 BTM CODE
 WVEL DIR 03 FC 03 BA 10 DRY -36.2 WET RELHU VIS 6
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.771	23.15
2	10	-1.62	28.790	23.16
2	20	-1.61	28.780	23.16
2	30	-1.63	29.326	23.60
2	40	-1.68	30.168	24.28
2	50	-1.62	30.890	24.86
2	75	-1.54	31.872	25.66
2	100	-1.68	32.831	26.44
1	150	-1.40	33.700	27.13
1	200	-0.41	34.496	27.74
1	250	0.06	34.710	27.89
1	300	0.41	34.782	27.93
1	350	0.50	34.844	27.97
1	400	0.44	34.930	28.05

STATION AR1-096

OBSERVED VALUES

DATE 02/07/61 HR 00 LAT 74-46N LONG 165-37W SDG 0418 BTM CODE
 WVEL DIR 03 FC 03 BA 10 DRY -36.2 WET RELHU VIS 6
 WEA 01 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.61	30.546	24.58
1	55	-1.61	31.138	25.06
1	60	-1.65	31.272	25.17
1	65	-1.64	31.386	25.27
1	70	-1.60	31.652	25.48
1	80	-1.56	32.080	25.83
1	85	-1.49	32.360	26.05
1	90	-1.57	32.540	26.20
1	95	-1.64	32.776	26.39
2	105	-1.57	33.070	26.63
2	110	-1.65	33.130	26.68
2	115	-1.62	33.214	26.75
2	120	-1.66	33.270	26.79
2	125	-1.64	33.303	26.82
2	130	-1.59	33.380	26.88
2	135	-1.62	33.488	26.97

STATION AR1-097

OBSERVED VALUES

DATE 02/09/61 HR 22 LAT 74-46N LONG 165-35W SDG 0420 BTM CODE
 WVEL DIR 24 FC 03 BA 26 DRY -41.2 WET RELHU VIS 7
 WEA 00 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.58	28.920	23.27
2	10	-1.62	28.930	23.28
2	20	-1.64	29.254	23.54
2	30	-1.65	30.265	24.36
2	40	-1.67	30.912	24.88
2	50	-1.70	31.270	25.17
2	75	-1.46	32.095	25.84
2	100	-1.48	32.780	26.39
1	150	-1.63	33.442	26.93
1	200	-0.62	34.333	27.62
1	250	-0.10	34.676	27.87
1	300	0.30	34.790	27.94
1	350	0.52	34.864	27.99
1	400	0.49	34.864	27.99

STATION AR1-098

OBSERVED VALUES

DATE 02/10/61 HR 01 LAT 74-46N LONG 165-35W SDG 0420 BTM CODE
 WVEL DIR 24 FC 03 BA 26 DRY -41.2 WET RELHU VIS 7
 WEA 00 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.61	31.120	25.05
1	55	-1.63	31.400	25.28
1	60	-1.62	31.490	25.35
1	65	-1.60	31.580	25.42
1	70	-1.53	31.790	25.59
1	80	-1.57	32.266	25.98
1	85	-1.46	32.430	26.11
1	90	-1.48	32.570	26.22
1	95	-1.50	32.745	26.36
2	105	-1.53	32.840	26.44
2	110	-1.52	32.980	26.55
2	115	-1.55	33.035	26.60
2	120	-1.60	33.130	26.68
2	125	-1.60	33.215	26.75
2	130	-1.58	33.290	26.81
2	135	-1.66	33.310	26.82

STATION AR1-099

OBSERVED VALUES

DATE 02/12/61 HR 23 LAT 74-48N LONG 165-49W							SDG 0420 BTM CODE	
WVEL	DIR	FC	AMT	RA	DRY	WET	RELHU	VIS
WEA 00	CL	0	SEA	DIR	SWL	DIR	SECDI	7
CAST	DEPTH	TEMP.	SAL.	SIGMA-T				
2	4	-1.61	29.050	23.37				
2	10	-1.64	29.120	23.43				
2	20	-1.67	29.840	24.01				
2	30	-1.70	30.430	24.49				
2	40	-1.69	30.840	24.82				
2	50	-1.66	31.186	25.10				
2	75	-1.53	31.980	25.74				
2	100	-1.47	32.745	26.36				
1	150	-1.65	33.386	26.89				
1	200	-0.67	34.260	27.56				
1	250	-0.14	34.630	27.84				
1	300	0.29	34.750	27.91				
1	350	0.51	34.790	27.93				
1	400	0.50	34.836	27.97				

STATION AR1-100

OBSERVED VALUES

DATE 02/13/61 HR 01 LAT 74-48N LONG 165-49W							SDG 0420 BTM CODE	
WVEL	DIR	FC	AMT	RA	DRY	WET	RELHU	VIS
WEA 00	CL	0	SEA	DIR	SWL	DIR	SECDI	7
CAST	DEPTH	TEMP.	SAL.	SIGMA-T				
1	45	-1.61	31.020	24.97				
1	55	-1.66	31.310	25.20				
1	60	-1.66	31.480	25.34				
1	65	-1.75	31.648	25.48				
1	70	-1.60	31.760	25.57				
1	80	-1.64	32.100	25.84				
1	85	-1.48	32.236	25.95				
1	90	-1.43	32.300	26.00				
1	95	-1.47	32.586	26.23				
2	105	-1.51	32.820	26.42				
2	110	-1.54	32.930	26.51				
2	115	-1.66	33.010	26.58				
2	120	-1.57	33.050	26.61				
2	125	-1.54	33.116	26.66				
2	130	-1.59	33.178	26.72				
2	135	-1.62	33.276	26.80				

STATION AR1-101

OBSERVED VALUES

DATE 02/15/61 HR 21 LAT 74-49N LONG 165-53W SDG 0440 BTM CODE
 WVEL DIR 23 FC 04 BA 41 DRY -28.5 WET RELHU VIS 7
 WEA 02 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.61	29.360	23.62
2	10	-1.65	29.362	23.63
2	20	-1.69	30.020	24.16
2	30	-1.70	30.466	24.52
2	40	-1.74	30.760	24.76
2	50	-1.73	31.170	25.09
2	75	-1.58	31.966	25.73
2	100	-1.47	32.655	26.29
1	150	-1.67	33.400	26.90
1	200	-0.68	34.306	27.60
1	250	-0.05	34.670	27.86
1	300	0.30	34.816	27.96
1	350	0.51	34.890	28.01
1	400	0.48	34.920	28.04

STATION AR1-102

OBSERVED VALUES

DATE 02/16/61 HR 00 LAT 74-49N LONG 165-53W SDG 0440 BTM CODE
 WVEL DIR 23 FC 04 BA 41 DRY -28.5 WET RELHU VIS 7
 WEA 02 CL AMT 0 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.69	30.990	24.95
1	55	-1.70	31.306	25.20
1	60	-1.71	31.430	25.30
1	65	-1.69	31.620	25.46
1	70	-1.59	31.820	25.62
1	80	-1.53	32.176	25.90
1	85	-1.73	32.316	26.02
1	90	-1.43	32.510	26.17
1	95	-1.45	32.646	26.28
2	105	-1.50	32.833	26.43
2	110	-1.57	32.980	26.55
2	115	-1.53	33.092	26.64
2	120	-1.59	33.130	26.68
2	125	-1.58	33.215	26.75
2	130	-1.53	33.256	26.78
2	135	-1.59	33.308	26.82

STATION AR1-103

OBSERVED VALUES

DATE 02/18/61 HR 23 LAT 74-50N LONG 166-00W SDG BTM CODE
 WVEL DIR 18 FC 02 BA 34 DRY -26.9 WET RELHU VIS 9
 WEA 02 CL 6 AMT 7 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.60	29.120	23.43
2	10	-1.65	29.308	23.58
2	20	-1.68	30.026	24.16
2	30	-1.70	30.544	24.58
2	40	-1.74	30.816	24.81
2	50	-1.72	31.270	25.17
2	75	-1.62	31.888	25.67
2	100	-1.66	32.743	26.36
1	150	-1.58	33.510	26.98
1	200	-0.65	34.420	27.69
1	250	-0.12	34.818	27.99
1	300	0.32	34.916	28.04
1	350	0.50	34.965	28.07
1	400	0.46	34.990	28.09

STATION AR1-104

OBSERVED VALUES

DATE 02/19/61 HR 01 LAT 74-50N LONG 166-00W SDG BTM CODE
 WVEL DIR 19 FC 02 BA 33 DRY -26.9 WET RELHU VIS 6
 WEA 70 CL 6 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TFMP.	SAL.	SIGMA-T
1	45	-1.68	30.998	24.95
1	55	-1.71	31.484	25.35
1	60	-1.77	31.656	25.49
1	65	-1.76	31.733	25.55
1	70	-1.74	31.794	25.60
1	80	-1.63	32.070	25.82
1	85	-1.72	32.230	25.95
1	90	-1.47	32.406	26.09
1	95	-1.49	32.570	26.22
2	105	-1.75	32.860	26.46
2	110	-1.52	32.870	26.46
2	115	-1.53	33.040	26.60
2	120	-1.59	33.120	26.67
2	125	-1.58	33.140	26.68
2	130	-1.49	33.208	26.74
	135		33.236	

S A F E T Y FILE +
STATION AR1-105

OBSERVED VALUES

DATE 02/21/61 HR 22 LAT 74-51N LONG 166-06W SDG 0435 BTM CODE
WVEL DIR 25 FC 03 BA 21 DRY -32.8 WET RELHU VIS 7
WEA 03 CL 6 AMT 4 SEA DIR SWL DIR SEC D1 LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.60	28.955	23.30
2	10	-1.62	28.960	23.30
2	20	-1.67	29.826	24.00
2	30	-1.70	30.540	24.58
2	40	-1.73	30.880	24.86
2	50	-1.74	31.242	25.15
2	75	-1.61	31.910	25.69
2	100	-1.50	32.736	26.36
1	150	-1.61	33.430	26.92
1	200	-0.68	34.302	27.60
1	250	-0.13	34.690	27.88
1	300	0.30	34.780	27.93
1	350	0.43	34.873	28.00
1	400	0.48	34.900	28.02

STATION AR1-106

OBSERVED VALUES

DATE 02/22/61 HR 00 LAT 74-51N LONG 166-06W SDG 0435 BTM CODE
WVEL DIR 25 FC 03 BA 21 DRY -32.8 WET RELHU VIS 7
WEA 03 CL 6 AMT 4 SEA DIR SWL DIR SEC D1 LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.70	31.083	25.02
1	55	-1.78	31.380	25.26
1	60	-1.71	31.544	25.39
1	65	-1.62	31.649	25.48
1	70	-1.64	31.770	25.58
1	80	-1.64	32.064	25.81
1	85	-1.53	32.190	25.91
1	90	-1.46	32.380	26.07
1	95	-1.49	32.570	26.22
2	105	-1.70	32.816	26.42
2	110	-1.57	32.870	26.47
2	115	-1.57	32.996	26.57
2	120	-1.64	33.030	26.60
2	125	-1.60	33.120	26.67
2	130	-1.58	33.196	26.73
2	135	-1.61	33.222	26.75

STATION AR1-107

OBSERVED VALUES

DATE	02/24/61	HR	21	LAT	74-44N	LONG	166-08W	SDG	BTM CODE
WVEL		DIR	35	FC	04	BA	14	DRY	-24.0 WET
WEA	85	CL	6	AMT	7	SEA		DIR	DIR

RELHU	VIS
SECDI	5
LD	

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.59	28.962	23.30
2	10	-1.63	28.960	23.30
2	20	-1.68	30.220	24.32
2	30	-1.71	30.946	24.91
2	40	-1.73	31.330	25.22
2	50	-1.74	31.530	25.38
2	75	-1.64	31.846	25.64
2	100	-1.48	32.606	26.25
1	150	-1.50	33.450	26.93
1	200	-0.61	34.333	27.62
1	250	-0.06	34.676	27.87
1	300	0.29	34.788	27.94
1	350	0.53	34.830	27.96
1	400		34.886	

STATION AR1-108

OBSERVED VALUES

DATE	02/25/61	HR	00	LAT	74-44N	LONG	166-08W	SDG	BTM CODE
WVEL		DIR	35	FC	04	BA	12	DRY	-24.0 WET
WEA	71	CL	6	AMT	8	SEA		DIR	DIR

RELHU	VIS
SECDI	4
LD	

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.76	31.402	25.28
1	55	-1.80	31.610	25.45
1	60	-1.85	31.648	25.48
1	65	-1.75	31.696	25.52
1	70	-1.72	31.740	25.55
1	80	-1.67	31.960	25.73
1	85	-1.60	32.060	25.81
1	90	-1.56	32.200	25.92
1	95	-1.47	32.446	26.12
2	105	-1.49	32.736	26.36
2	110	-1.51	32.858	26.45
2	115	-1.55	32.970	26.55
2	120	-1.57	33.038	26.60
2	125	-1.55	33.146	26.69
2	130	-1.57	33.310	26.82
2	135	-1.59		

STATION AR1-109

OBSERVED VALUES

DATE 02/27/61 HR 22 LAT 74-42N LONG 166-11W SDG 0407 BTM CODE
 WVEL DIR 30 FC 03 BA 16 DRY -36.6 WET RELHU VIS 6
 WEA 00 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.60	29.264	23.55
2	10	-1.64	29.250	23.54
2	20	-1.68	30.000	24.14
2	30	-1.70	30.990	24.95
2	40	-1.76	31.290	25.19
2	50	-1.73	31.555	25.40
2	75	-1.62	31.860	25.65
2	100	-1.46	32.568	26.22
1	150	-1.62	33.485	26.97
1	200	-0.58	34.400	27.67
1	250	-0.07	34.699	27.89
1	300	0.33	34.820	27.96
1	350	0.53	34.870	27.99
1	400	0.43	34.956	28.07

STATION AR1-110

OBSERVED VALUES

DATE 02/28/61 HR 00 LAT 74-42N LONG 166-11W SDG 0407 BTM CODE
 WVEL DIR 29 FC 02 RA 17 DRY -36.6 WET RELHU VIS 6
 WEA 00 CL 0 AMT 2 SEA DIR SWL DIR SEC DI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.67	31.420	25.29
1	55	-1.72	31.610	25.45
1	60	-1.76	31.655	25.49
1	65	-1.75	31.700	25.52
1	70	-1.69	31.778	25.58
1	80	-1.65	32.005	25.77
1	85	-1.65	32.120	25.86
1	90	-1.58	32.210	25.93
1	95	-1.52	32.378	26.07
2	105	-1.49	32.680	26.31
2	110	-1.52	32.790	26.40
2	115	-1.49	32.892	26.48
2	120	-1.62	33.020	26.59
2	125	-1.59	33.120	26.67
2	130	-1.59	33.160	26.70
2	135	-1.65	33.240	26.77

STATION AR1-111

OBSERVED VALUES

DATE 03/02/61 HR 21 LAT 74-43N LONG 166-22W SDG 0407 BTMCODE
WVEL DIR 08 FC 03 BA 27 DRY -40+0 WET RELHU VIS 6
WEA 77 CL 0 AMT 7 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.62	29.360	23.62
2	10	-1.64	29.360	23.63
2	20	-1.67	30.106	24.23
2	30	-1.69	30.999	24.95
2	40	-1.75	31.316	25.21
2	50	-1.73	31.546	25.40
2	75	-1.63	31.820	25.62
2	100	-1.48	32.550	26.20
1	150	-1.64	33.420	26.91
1	200	-0.59	34.346	27.63
1	250	-0.06	34.693	27.88
1	300	0.31	34.780	27.93
1	350	0.52	34.850	27.98
1	400	0.45	34.900	28.02

STATION AR1-112

OBSERVED VALUES

DATE 03/02/61 HR 23 LAT 74-43N LONG 166-22W SDG 0407 BTM CODE
 WEA 85 CL 0 AMT 7 SEA DIR SWL DIR SEC DI LD
 WVEL DIR 09 FC 03 BA 28 DRY -35.4 WET RELHU VIS 6
 CAST DEPTH TFMP. SAL. SIGMA-T

1	45	-1.69					
1	55	-1.70	31.596	25.44			
1	60	-1.76	31.670	25.50			
1	65	-1.67	31.650	25.48			
1	70	-1.73	31.733	25.55			
1	80	-1.63	31.990	25.75			
1	85	-1.55	32.099	25.84			
1	90	-1.55	32.224	25.94			
1	95	-1.49	32.385	26.07			
2	105	-1.76	32.666	26.30			
2	110	-1.51	32.770	26.38			
2	115	-1.73					
2	120	-1.58	33.010	26.58			
2	125	-1.59	33.060	26.62			
2	130	-1.58	33.116	26.67			
2	135	-1.61	33.214	26.75			

STATION AR1-113

OBSERVED VALUES

DATE 03/05/61 HR 23 LAT 74-48N LONG 166-32W SDG 0416 BTM CODE
 WVEL DIR 10 FC 03 BA 27 DRY -35.0 WET REL HU VIS 6
 WEA 03 CL 0 AMT 7 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.61	29.338	23.61
2	10	-1.66	29.406	23.66
2	20	-1.65	29.626	23.84
2	30	-1.68	30.866	24.84
2	40	-1.73	31.206	25.12
2	50	-1.74	31.460	25.33
2	75	-1.55	31.890	25.67
2	100	-1.60	32.678	26.31
1	150	-1.66	33.416	26.91
1	200	-0.60	34.326	27.61
1	250	-0.09	34.680	27.87
1	300	0.29	34.760	27.92
1	350	0.49	34.850	27.98
1	400	0.42	34.871	28.00

STATION AR1-114

OBSERVED VALUES

DATE 03/06/61 HR 01 LAT 74-48N LONG 166-32W SDG 0417 BTM CODE
 WVEL DIR 10 FC 03 BA 27 DRY -35.0 WET REL HU VIS 6
 WEA 03 CL 0 AMT 7 SEA DIR SWL DIR SEC DT LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
1	45	-1.68	31.336	25.23
1	55	-1.72	31.586	25.43
1	60	-1.75	31.645	25.48
1	65	-1.75	31.690	25.51
1	70	-1.71	31.760	25.57
1	80	-1.57	32.040	25.79
1	85	-1.51	32.180	25.91
1	90	-1.41	32.346	26.04
1	95	-1.49	32.490	26.16
2	105	-1.66	32.830	26.44
2	110	-1.61	32.918	26.51
2	115	-1.54	33.020	26.59
2	120	-1.59	33.080	26.64
2	125	-1.59	33.158	26.70
2	130	-1.60	33.213	26.74
2	135	-1.65	33.286	26.80

STATION AR1-117
OBSERVED VALUES

DATE 03/11/61 HR 21 LAT 74-51N LONG 167-07W SDG 0390 BTMCODE
WVEL DIR 09 FC 04 BA 20 DRY -28.0 WET RELHU VIS 5
WEA 02 CL 0 AMT 8 SEA DIR SWL DIR SECDI LD

CAST	DEPTH	TEMP.	SAL.	SIGMA-T
2	4	-1.63	29.598	23.90
2	10	-1.68	29.700	23.90
2	20	-1.70	30.660	24.68
2	30	-1.71	31.142	25.07
2	40	-1.71	31.426	25.30
2	50	-1.70	31.640	25.47
2	75	-1.63	31.980	25.75
2	100	-1.47	32.658	26.29
1	150	-1.67	33.303	26.82
1	200	-0.76	34.220	27.53
1	250	-0.17	34.626	27.83
1	300	0.28	34.785	27.94
1	350		34.832	

STATION AR1-118
OBSERVED VALUES

DATE 03/12/61 HR 00 LAT 74-51N LONG 167-10W SDG 0390 BTMCODE
WEA 02 CL 0 AMT 8 SEA DIR SWL DIR SECDI LD

WVEL	DIR	10	FC	04	BA	19	DRY	-27.7	WET	RELHU	VIS 5
CAST	DEPTH	TEMP.			SAL.		SIGMA-T				
1	45	-1.70			31.559		25.41				
1	55	-1.75			31.660		25.49				
1	60	-1.75			31.712		25.53				
1	65	-1.73			31.750		25.56				
1	70	-1.67			31.823		25.62				
1	80	-1.61			32.020		25.78				
1	85	-1.61			32.156		25.89				
1	90				32.316						
1	95	-1.47			32.540		26.20				
2	105	-1.53			32.768		26.38				
2	110	-1.54			32.866		26.46				
2	115	-1.67			32.960		26.54				
2	120	-1.58			33.030		26.60				
2	125	-1.61			33.124		26.67				
2	130	-1.57			33.170		26.71				
2	135	-1.62			33.196		26.73				

TABLE II

INTERPOLATED AND COMPUTED PHYSICAL
OCEANOGRAPHIC DATA

STATION AR1-001
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
0	-1.58	28.980	23.32	457.1	0 000
10	-1.58	29.022	23.35	453.8	0 046
20	-1.48	28.066	22.58	527.6	0 095
30	-1.29	29.609	23.82	408.6	0 142
50	-1.60	30.086	24.21	371.1	0 226
75	-1.08	31.411	25.27	270.0	0 300
100	-1.21	32.010	25.76	223.5	0 362
150	-1.43	32.726	26.35	167.6	0 460
200	-1.40	33.445	26.93	112.4	0 530

STATION AR1-002
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.57	28.865	23.22	466.0	0 000
10	-1.57	28.875	23.23	465.1	0 028
20	-1.56	28.910	23.26	462.3	0 074
30	-1.35	28.180	22.67	518.8	0 123
50	-1.18	30.810	24.79	316.2	0 206
75	-1.25	31.800	25.59	239.7	0 275
100	-1.38	32.090	25.83	216.9	0 332
150	-1.60	32.430	26.11	189.9	0 434
200	-1.44	33.150	26.69	134.8	0 515
250	-0.71	34.021	27.37	70.8	0 566
300	-0.16	34.597	27.81	29.7	0 591
400	0.33	34.845	27.98	13.8	0 613
500	0.40	34.860	27.99	13.2	0 627
600	0.39	34.870	28.00	12.5	0 640
700	0.28	34.874	28.01	11.5	0 652
800	0.15	34.880	28.02	10.1	0 663
1000	-0.17	34.900	28.05	6.2	0 679
1200	-0.19	34.900	28.06	5.9	0 691

STATION AR1-004

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.56	28.865	23.22	466.0	0 000
10	-1.56	28.960	23.30	458.6	0 028
20	-1.56	28.930	23.28	460.7	0 074
30	-1.55	28.960	23.30	458.3	0 120
50	-1.36	28.960	23.30	458.3	0 212
75	-1.14	30.930	24.89	306.8	0 308
100	-1.20	31.606	25.43	254.5	0 378
150	-1.38	32.461	26.13	188.1	0 489
200	-1.43	32.986	26.56	147.4	0 573
250	-0.72	33.915	27.28	78.8	0 630
300	-0.18	34.523	27.75	35.2	0 659
400	0.32	34.698	27.87	24.8	0 689
500	0.47	34.784	27.93	19.4	0 711
600	0.38	34.790	27.94	18.4	0 730
700	0.25	34.819	27.97	15.4	0 747
800	0.12	34.839	27.99	13.0	0 761
1000	-0.07	34.850	28.01	10.7	0 785
1200	-0.20	34.850	28.02	9.6	0 805

STATION AR1-006

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.860	23.22	466.4	0 000
10	-1.58	28.840	23.20	467.8	0 028
20	-1.57	28.880	23.24	464.6	0 075
30	-1.55	29.170	23.47	442.1	0 120
50	-1.27	30.720	24.72	322.9	0 197
75	-1.14	31.363	25.24	273.6	0 272
100	-1.25	31.984	25.74	225.4	0 334
150	-1.44	32.665	26.30	172.3	0 433
200	-1.43	33.472	26.95	110.2	0 504
250	-0.74	34.309	27.60	48.7	0 544
300	-0.17	34.519	27.75	35.5	0 565
400	0.44	34.833	27.97	15.4	0 590
500	0.49	34.873	28.00	12.9	0 604
600	0.38	34.928	28.05	8.0	0 614
700	0.25	34.930	28.06	7.0	0 622
800	0.14	34.930	28.06	6.3	0 629
1000	-0.07	34.930	28.07	4.7	0 640
1200	-0.20	34.930	28.08	3.6	0 648

STATION AR1-008
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	29.200	23.49	440.1	0 000
10	-1.58	28.930	23.28	460.9	0 027
20	-1.57	28.850	23.21	466.9	0 073
30	-1.59	28.750	23.13	474.5	0 120
50	-1.20	31.185	25.09	287.3	0 196
75	-1.23	31.820	25.61	238.2	0 262
100	-1.22	32.090	25.83	217.4	0 319
150	-1.52	32.535	26.19	182.0	0 419
200	-1.41	33.035	26.60	143.7	0 500
250	-0.94	34.120	27.46	62.3	0 551
300	-0.20	34.593	27.81	29.8	0 574
400	0.33	34.803	27.95	17.0	0 597
500	0.49	34.839	27.97	15.4	0 613
600	0.47	34.879	28.00	12.4	0 627
700	0.38	34.875	28.00	12.1	0 639
800	0.27	34.875	28.01	11.4	0 651
1000	0.00	34.889	28.04	8.3	0 671
1200	-0.24	34.909	28.07	4.9	0 684

STATION AR1-009
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.57	28.920	23.27	461.7	0 000
10	-1.57	28.930	23.28	460.9	0 028
20	-1.58	28.930	23.28	460.7	0 074
30	-1.60	28.955	23.30	458.6	0 120
50	-1.34	32.010	25.76	223.6	0 188
75	-1.14	32.690	26.31	171.8	0 237
100	-1.24	33.177	26.71	134.0	0 275
150	-1.33	33.229	26.75	129.4	0 341
200	-1.43	33.246	26.77	127.5	0 405
250	-0.87	34.184	27.51	57.7	0 451
300	-0.21	34.544	27.77	33.4	0 474
400	0.26	34.784	27.94	18.0	0 500
500	0.47	34.848	27.98	14.6	0 516
600	0.40	34.874	28.00	12.2	0 529
700	0.27	34.874	28.01	11.4	0 541
800	0.15	34.875	28.02	10.5	0 552
1000	-0.04	34.880	28.03	8.7	0 571
1200	-0.19	34.880	28.04	7.4	0 587

S.T.Y.F.M.I.L.E.S.A.

STATION AR1-011
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.920	23.27	461.7	0 000
10	-1.58	28.920	23.27	461.6	0 028
20	-1.58	28.910	23.26	462.3	0 074
30	-1.59	28.930	23.28	460.6	0 120
50	-1.38	30.345	24.42	351.5	0 201
75	-1.17	31.440	25.30	267.6	0 278
100	-1.24	32.010	25.76	223.4	0 339
150	-1.43	32.660	26.29	172.7	0 438
200	-1.41	33.300	26.81	123.4	0 512
250	-0.75	34.230	27.54	54.7	0 557
300	-0.27				
400	0.35				
500	0.49				
600	0.39				
700	0.27				
800	0.15				
1000	-0.05				
1200	-0.20				

STATION AR1-013
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.960	23.30	458.6	0 000
10	-1.59	28.950	23.29	459.3	0 028
20	-1.59	28.960	23.30	458.4	0 074
30	-1.60	29.200	23.50	439.7	0 119
50	-1.35	30.415	24.47	346.2	0 198
75	-1.05	31.190	25.09	287.1	0 277
100	-1.19	32.000	25.75	224.3	0 341
150	-1.35	32.600	26.24	177.5	0 441
200	-1.40	33.200	26.73	131.1	0 518
250	-0.76	33.700	27.11	95.0	0 575
300	-0.15	34.100	27.41	67.4	0 616
400	0.35	34.790	27.94	18.1	0 659
500	0.49	34.900	28.02	10.8	0 673
600	0.39	34.910	28.03	9.5	0 683
700	0.26	34.903	28.03	9.1	0 692
800	0.15	34.900	28.04	8.6	0 701
1000	0.02	34.910	28.05	6.9	0 716
1200	-0.20	34.910	28.06	5.1	0 728

STATION AR1-015

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.810	23.18	470.2	0 000
10	-1.58	28.910	23.26	462.4	0 028
20	-1.58	28.810	23.18	470.0	0 075
30	-1.61	28.910	23.26	462.1	0 122
50	-1.32	30.450	24.50	343.6	0 203
75	-1.08	31.380	25.25	272.4	0 280
100	-1.20	31.990	25.74	225.1	0 342
150	-1.35	32.640	26.27	174.5	0 442
200	-1.42	33.180	26.71	132.6	0 519
250	-0.85	34.130	27.46	61.9	0 568
300	-0.19	34.480	27.72	38.4	0 593
400	0.35	34.699	27.86	25.0	0 625
500	0.48	34.748	27.90	22.2	0 649
600	0.38	34.858	27.99	13.3	0 667
700	0.27	34.854	27.99	12.9	0 680
800	0.16	34.855	28.00	12.1	0 692
1000	-0.01	34.875	28.03	9.3	0 713
1200	-0.20	34.871	28.03	8.0	0 730

STATION AR1-017

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.57	28.950	23.29	459.4	0 000
10	-1.57	28.950	23.29	459.3	0 028
20	-1.59	28.970	23.31	457.6	0 074
30	-1.61	28.920	23.27	461.3	0 120
50	-1.43	30.255	24.35	358.4	0 202
75	-0.95	31.380	25.24	272.8	0 281
100	-1.21	31.960	25.72	227.4	0 344
150	-1.42	32.690	26.32	170.4	0 443
200	-1.41	33.226	26.75	129.1	0 518
250	-1.33	34.097	27.45	62.5	0 566
300	-0.29	34.523	27.76	34.6	0 590
400	0.33	34.797	27.94	17.4	0 616
500	0.48	34.849	27.98	14.6	0 632
600	0.41	34.860	27.99	13.4	0 646
700	0.31	34.845	27.98	13.9	0 660
800	0.20	34.840	27.99	13.5	0 674
1000	0.01	34.860	28.01	10.5	0 698
1200	-0.18	34.875	28.03	7.9	0 716

STATION AR1-019
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL.	GEOPOT.
				ANOMALY	ANOMALY
4	-1.56	28.955	23.30	459.0	0 000
10	-1.57	28.950	23.29	459.3	0 028
20	-1.60	28.950	23.29	459.2	0 074
30	-1.61	28.950	23.29	459.0	0 120
50	-1.29	30.610	24.63	331.3	0 199
75	-1.02	31.580	25.41	257.2	0 273
100	-1.29	32.205	25.92	208.3	0 331
150	-1.29	32.620	26.26	176.2	0 427
200	-1.28	32.890	26.47	155.2	0 510
250	-1.02	34.040	27.40	68.0	0 566
300	-0.22	34.540	27.77	33.7	0 591
400	0.31	34.780	27.93	18.6	0 617
500	0.48	34.820	27.95	16.8	0 635
600	0.39	34.880	28.01	11.7	0 649
700	0.27	34.875	28.01	11.3	0 661
800	0.15	34.880	28.02	10.1	0 672
1000	-0.06	34.920	28.07	5.5	0 688
1200	-0.10	34.920	28.07	5.2	0 699

STATION AR1-021
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL.	GEOPOT.
				ANOMALY	ANOMALY
4	-1.58	28.980	23.32	457.1	0 000
10	-1.57	29.000	23.33	455.5	0 027
20	-1.58	29.000	23.33	455.3	0 073
30	-1.61	29.000	23.33	455.2	0 110
50	-1.36	30.346	24.42	351.5	0 200
75	-1.12	31.470	25.32	265.4	0 277
100	-1.20	32.050	25.79	220.5	0 338
150	-1.40	32.830	26.43	159.8	0 433
200	-1.41	33.302	26.81	123.2	0 504
250	-0.85	33.956	27.32	75.2	0 554
300	-0.21	34.380	27.64	45.9	0 584
400	0.32	34.785	27.94	18.3	0 616
500	0.48	34.800	27.94	18.3	0 634
600	0.40	34.798	27.94	18.0	0 652
700	0.27	34.805	27.95	16.6	0 669
800	0.17	34.820	27.97	14.8	0 685
1000	0.07	34.875	28.02	9.9	0 710
1200	-0.06	34.890	28.04	7.7	0 728

STATION ARI-023

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	29.045	23.37	452.1	0 000
10	-1.58	29.050	23.37	451.6	0 027
20	-1.59	29.070	23.39	449.9	0 072
30	-1.60	29.045	23.37	451.7	0 117
50	-1.37	30.300	24.38	355.0	0 198
75	-1.15	31.490	25.34	263.8	0 275
100	-1.25	32.090	25.83	217.3	0 335
150	-1.41	33.320	26.83	122.2	0 420
200	-1.42	33.820	27.23	83.6	0 471
250	-0.90	34.235	27.55	53.7	0 505
300	-0.21	34.600	27.82	36.6	0 528
400	0.33	34.820	27.96	15.7	0 554
500	0.48	34.900	28.02	10.8	0 567
600	0.42	34.910	28.03	9.7	0 577
700	0.30	34.901	28.03	9.6	0 587
800	0.18	34.900	28.04	8.8	0 596
1000	-0.04	34.920	28.06	5.7	0 611
1200	-0.26	34.970	28.12	2	0 617

STATION ARI-025

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.59	29.100	23.41	447.8	0 000
10	-1.60	29.094	23.41	448.2	0 027
20	-1.60	29.090	23.41	448.4	0 072
30	-1.61	29.122	23.43	445.7	0 117
50	-1.26	30.690	24.69	325.2	0 194
75	-1.14	31.594	25.42	255.8	0 267
100	-1.33	32.158	25.88	211.8	0 325
150	-1.46	32.590	26.24	178.0	0 422
200	-1.50	32.883	26.47	155.0	0 505
250	-1.12	33.933	27.31	75.8	0 563
300	-0.30	34.590	27.81	29.4	0 589
400	0.29	34.827	27.97	14.9	0 611
500	0.48	34.850	27.98	14.5	0 626
600	0.44	34.870	28.00	12.8	0 640
700	0.33	34.876	28.01	11.7	0 652
800	0.21	34.880	28.02	10.5	0 663
1000	0.01	34.880	28.03	9.1	0 683
1200	-0.18	34.870	28.03	8.3	0 700

STATION AR1-027
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP+VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.59	29.100	23.41	447.8	0 000
10	-1.59	29.100	23.41	447.7	0 027
20	-1.60	29.090	23.41	448.4	0 072
30	-1.60	29.100	23.41	447.4	0 117
50	-1.38	30.330	24.41	352.7	0 197
75	-1.38	31.390	25.26	270.9	0 275
100	-1.24	32.040	25.79	221.1	0 337
150	-1.32	32.660	26.29	173.0	0 436
200	-1.43	33.230	26.75	128.7	0 511
250	-0.73	34.190	27.51	57.9	0 558
300	-0.18	34.608	27.82	28.7	0 580
400	0.33	34.800	27.95	17.2	0 603
500	0.48	34.878	28.00	12.4	0 618
600	0.41	34.900	28.02	10.4	0 629
700	0.31	34.897	28.03	9.9	0 639
800	0.21	34.896	28.03	9.3	0 649
1000	0.00	34.900	28.05	7.5	0 666
1200	-0.19	34.900	28.06	5.9	0 679

STATION AR1-029
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP+VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	29.120	23.43	446.3	0 000
10	-1.59	29.062	23.38	450.7	0 027
20	-1.60	29.090	23.41	448.4	0 072
30	-1.61	29.090	23.41	448.2	0 117
50	-1.35	30.550	24.58	335.8	0 195
75	-1.07	31.330	25.21	276.3	0 272
100	-1.23	32.110	25.84	215.8	0 334
150	-1.44	32.919	26.50	152.8	0 426
200	-1.45	33.402	26.89	115.5	0 493
250	-1.17	33.801	27.21	85.7	0 543
300	-0.35	34.441	27.69	40.5	0 575
400	0.28	34.782	27.94	18.2	0 604
500	0.48	34.877	28.00	12.5	0 619
600	0.43	34.890	28.01	11.2	0 631
700	0.31	34.885	28.02	10.8	0 642
800	0.19	34.880	28.02	10.4	0 653
1000	-0.02	34.870	28.02	9.6	0 673
1200	-0.24	34.897	28.06	5.8	0 688

STATION AR1-031
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.59	29.110	23.42	447.0	0 000
10	-1.60	29.010	23.34	454.7	0 027
20	-1.61	29.112	23.42	446.6	0 072
30	-1.63	29.110	23.42	446.6	0 117
50	-1.43	30.300	24.38	354.9	0 197
75	-1.33	31.166	25.08	288.2	0 277
100	-1.23	31.910	25.68	231.1	0 342
150	-1.45	32.688	26.32	170.5	0 442
200	-1.43	33.241	26.76	127.9	0 517
250	-0.77	34.172	27.49	59.0	0 564
300	-0.13	34.594	27.81	30.1	0 586
400	0.33	34.768	27.92	19.6	0 611
500	0.47	34.829	27.96	16.0	0 629
600	0.39	34.830	27.97	15.5	0 645
700	0.29	34.838	27.98	14.2	0 660
800	0.17	34.850	28.00	12.5	0 673
1000	-0.06	34.879	28.03	8.6	0 694
1200	-0.22	34.900	28.06	5.7	0 708

STATION AR1-033
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	29.000	23.33	455.5	0 000
10	-1.61	29.190	23.49	440.8	0 027
20	-1.62	29.196	23.49	440.1	0 071
30	-1.63	29.180	23.48	441.2	0 115
50	-1.45	29.636	23.85	406.0	0 200
75	-1.22	31.146	25.06	290.0	0 287
100	-1.20	31.680	25.49	248.9	0 354
150	-1.45	32.540	26.20	181.8	0 462
200	-1.47	32.977	26.55	147.9	0 544
250	-0.78	33.884	27.26	80.9	0 601
300	-0.06	34.620	27.82	28.5	0 626
400	0.42	34.788	27.93	18.7	0 652
500	0.47	34.868	27.99	13.1	0 668
600	0.50	34.974	28.08	5.4	0 677
700	0.31	34.980	28.09	3.7	0 682
800	0.16	34.983	28.10	2.5	0 685
1000	-0.07	34.985	28.12	.6	0 688
1200	-0.21	34.985	28.13	,0	0 688

STATION AR1-035
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	28.990	23.33	456.3	0 000
10	-1.61	28.980	23.30	458.5	0 027
20	-1.61	28.950	23.29	459.2	0 073
30	-1.64	29.020	23.35	453.6	0 119
50	-1.31	30.615	24.64	330.9	0 197
75	-1.43	31.380	25.26	271.6	0 272
100	-1.25	31.950	25.71	228.0	0 334
150	-1.43	32.490	26.15	185.7	0 437
200	-1.45	33.230	26.75	128.6	0 516
250	-0.93	33.960	27.33	74.5	0 567
300	-0.18	34.490	27.72	37.7	0 595
400	0.33	34.785	27.94	18.3	0 623
500	0.48	34.800	27.94	18.3	0 641
600	0.41	34.830	27.97	15.6	0 658
700	0.27	34.845	27.99	13.6	0 673
800	0.15	34.860	28.01	11.6	0 686
1000	-0.03	34.890	28.04	8.0	0 706
1200	-0.21	34.930	28.08	3.5	0 718

STATION AR1-037
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	29.781	23.97	395.2	0 000
10	-1.62	29.490	23.73	417.6	0 024
20	-1.62	29.470	23.71	419.0	0 066
30	-1.64	29.470	23.71	418.8	0 108
50	-1.35	30.620	24.64	330.4	0 183
75	-1.33	31.380	25.25	271.8	0 258
100	-1.25	32.026	25.77	222.2	0 320
150	-1.41	32.690	26.32	170.5	0 418
200	-1.44	33.320	26.83	121.8	0 491
250	-0.82	34.386	27.67	42.5	0 532
300	-0.14	34.762	27.94	17.3	0 547
400	0.33	34.960	28.08	5.1	0 558
500	0.45				
600	0.29				
700	0.23				
800	0.16				
1000	-0.05				
1200	-0.20				

STATION AR1-039

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP. VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.61	29.300	23.58	432.3	0 000
10	-1.61	29.270	23.55	434.6	0 026
20	-1.62	29.270	23.55	434.4	0 069
30	-1.65	29.290	23.57	432.7	0 112
50	-1.36	30.520	24.56	338.1	0 189
75	-1.33	31.180	25.09	287.2	0 267
100	-1.22	31.840	25.62	236.5	0 332
150	-1.41	32.564	26.21	180.1	0 436
200	-1.43	33.174	26.71	133.0	0 514
250	-0.77	34.130	27.46	62.3	0 563
300	-0.15	34.588	27.80	30.4	0 586
400	0.32	34.750	27.91	20.9	0 612
500	0.49	34.792	27.93	19.0	0 632
600	0.42	34.858	27.99	13.6	0 648
700	0.26	34.849	27.99	13.2	0 661
800	0.13	34.850	28.00	12.2	0 674
1000	-0.07	34.880	28.03	8.4	0 695
1200	-0.20	34.890	28.05	6.6	0 710

STATION AR1-051

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP. VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.56	30.080	24.21	372.2	0 000
10	-1.62	30.106	24.23	370.0	0 022
20	-1.68	30.110	24.23	369.5	0 059
30	-1.70	30.160	24.27	365.5	0 096
50	-1.58	30.160	24.27	365.4	0 169
75	-1.42	31.344	25.23	274.4	0 249
100	-1.31	31.974	25.73	226.0	0 312
150	-1.41	32.670	26.30	172.0	0 411
200	-1.46	33.230	26.75	128.6	0 486
250	-0.79	34.170	27.49	59.1	0 533
300	-0.17	34.566	27.79	32.0	0 556
400	0.37	34.734	27.89	22.4	0 583
500	0.50	34.774	27.92	20.4	0 604
600	0.44	34.824	27.96	16.3	0 622
700	0.25	34.840	27.98	13.8	0 637
800	0.10	34.850	28.00	12.0	0 650
1000	-0.06	34.850	28.01	10.8	0 673
1200	-0.21	34.850	28.02	9.5	0 693

STATION AR1-053
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.65	29.896	24.06	386.3	0 000
10	-1.66	29.970	24.12	380.5	0 023
20	-1.67	30.075	24.20	372.2	0 061
30	-1.69	30.066	24.20	372.8	0 098
50	-1.66	30.226	24.33	360.2	0 171
75	-1.38	31.146	25.07	289.7	0 252
100	-1.24	32.014	25.76	223.1	0 316
150	-1.42	32.738	26.36	166.7	0 413
200	-1.42	33.380	26.87	117.3	0 484
250	-0.86	34.228	27.54	54.4	0 527
300	-0.18	34.590	27.81	30.1	0 548
400	0.38	34.720	27.88	23.6	0 575
500	0.51	34.750	27.90	22.3	0 598
600	0.43	34.788	27.93	18.9	0 619
700	0.28	34.807	27.96	16.5	0 637
800	0.15	34.820	27.97	14.6	0 653
1000	-0.06	34.830	27.99	12.3	0 680
1200	-0.20	34.860	28.02	8.8	0 701

STATION AR1-055
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.65	29.922	24.08	384.3	0 000
10	-1.65	29.954	24.11	381.7	0 023
20	-1.68	30.190	24.30	363.4	0 060
30	-1.70	30.160	24.27	365.5	0 096
50	-1.64	30.240	24.34	359.2	0 168
75	-1.40	31.265	25.16	280.5	0 248
100	-1.21	31.956	25.72	227.7	0 312
150	-1.41	32.730	26.35	167.4	0 411
200	-1.38	33.400	26.89	115.9	0 482
250	-0.66	34.550	27.79	30.8	0 519
300	-0.12	34.780	27.96	16.0	0 531
400	0.36				
500	0.51				
600	0.45				
700	0.32				
800	0.19				
1000	-0.05				
1200	-0.20				

STATION AR1-057

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.61	29.380	23.64	426.2	0 000
10	-1.61	29.400	23.66	424.5	0 026
20	-1.63	29.380	23.64	425.9	0 069
30	-1.69	30.190	24.30	363.2	0 108
50	-1.36	30.990	24.94	301.9	0 175
75	-1.28	31.780	25.58	241.2	0 243
100	-1.32	32.300	26.00	201.0	0 298
150		32.810			
200		33.100			
250	-1.00	33.958	27.33	74.4	
300	-0.19	34.650	27.85	25.5	
400	0.39	34.750	27.90	21.4	
500	0.50	34.850	27.98	14.7	
600	0.38	34.880	28.01	11.6	
700	0.22	34.879	28.02	10.7	
800	0.09	34.880	28.02	9.7	
1000	-0.07	34.890	28.04	7.7	
1200	-0.17	34.900	28.05	6.1	

STATION AR1-059

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	29.135	23.44	445.1	0 000
10	-1.60	29.150	23.45	443.9	0 027
20	-1.56	29.868	24.04	388.4	0 069
30	-1.58	30.250	24.34	358.7	0 106
50	-1.38	31.040	24.98	298.1	0 172
75	-1.29	31.680	25.50	248.9	0 240
100	-1.23	32.260	25.96	204.3	0 297
150	-1.42	32.810	26.41	161.2	0 388
200	-1.42	33.360	26.86	118.8	0 458

STATION AR1-061
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	28.930	23.28	460.9	0 000
10	-1.58	29.040	23.37	452.4	0 027
20	-1.60	29.180	23.48	441.4	0 072
30	-1.69	30.169	24.28	364.8	0 112
50	-1.46	31.088	25.02	294.2	0 178
75	-1.58	31.500	25.36	262.0	0 248
100	-1.28	32.150	25.88	212.6	0 307
150	-1.42	32.820	26.42	160.5	0 400
200	-1.41	33.492	26.97	108.7	0 467
250	-0.60	34.280	27.57	51.6	0 507
300	-0.07	34.650	27.85	26.2	0 526
400	0.41	34.896	28.02	10.5	0 544
500	0.51	34.906	28.02	10.5	0 554
600	0.37	34.900	28.03	10.1	0 564
700	0.25	34.900	28.03	9.3	0 574
800	0.13	34.900	28.04	8.5	0 583
1000	-0.09	34.900	28.05	6.8	0 598
1200	-0.22	34.900	28.06	5.7	0 611

STATION AR1-062
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.54	28.006	22.53	532.4	0 000
10	-1.53	28.056	22.57	528.5	0 032
20	-1.61	29.610	23.83	408.2	0 079
30	-1.66	30.108	24.23	369.6	0 118
50	-1.49	30.960	24.92	304.0	0 185
75	-1.26	31.558	25.40	258.3	0 255
100	-1.32	32.192	25.91	209.3	0 313
150	-1.44	32.916	26.50	153.1	0 404
200	-1.43	33.630	27.08	98.1	0 467
250	-0.48	34.340	27.62	47.6	0 503
300	-0.03	34.686	27.87	23.6	0 521
400	0.41	34.830	27.97	15.5	0 541
500	0.51	34.840	27.97	15.5	0 556
600	0.40	34.850	27.98	14.0	0 571
700	0.25	34.869	28.01	11.6	0 584
800	0.12	34.880	28.02	9.9	0 595
1000	-0.08	34.880	28.03	8.4	0 613
1200	-0.23	34.880	28.04	7.1	0 628

S A F E T Y M I L E S

STATION AR1-064
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.54	28.270	22.74	512.0	0 000
10	-1.54	28.306	22.77	509.1	0 031
20	-1.59	29.012	23.34	454.4	0 079
30	-1.68	30.116	24.24	368.9	0 120
50	-1.44	31.175	25.09	287.5	0 186
75	-1.37	31.692	25.51	247.7	0 253
100	-1.28	32.222	25.93	207.1	0 310
150	-1.44	32.898	26.49	154.4	0 400
200	-1.41	33.578	27.04	102.1	0 464
250	-0.58	34.386	27.66	43.6	0 500
300	-0.06	34.666	27.86	25.0	0 517
400	0.40	34.820	27.96	16.1	0 538
500	0.51	34.880	28.00	12.5	0 552
600	0.40	34.940	28.06	7.3	0 562
700	0.29	34.939	28.06	6.6	0 569
800	0.17	34.940	28.07	5.8	0 575
1000	-0.07	34.946	28.09	3.5	0 584
1200	-0.19	34.950	28.10	2.2	0 590

STATION AR1-067
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.43	27.970	22.50	535.3	0 000
10	-1.53	27.970	22.50	535.1	0 032
20	-1.54	28.410	22.86	500.9	0 084
30	-1.16	30.182	24.28	364.7	0 127
50	-1.58	31.212	25.12	284.4	0 192
75	-1.57	31.710	25.53	245.9	0 258
100	-1.36	32.336	26.03	198.1	0 314
150	-1.44	32.970	26.54	148.9	0 401
200	-1.41	33.520	26.99	106.6	0 465
250	-0.60	34.350	27.63	46.3	0 503
300	-0.07	34.650	27.85	26.2	0 521
400	0.44	34.850	27.98	14.1	0 541
500	0.52	34.871	27.99	13.2	0 555
600	0.36	34.912	28.04	9.1	0 566
700	0.20	34.931	28.06	6.6	0 574
800	0.07	34.942	28.08	4.9	0 580
1000	-0.12	34.944	28.09	3.3	0 588
1200	-0.21	34.944	28.09	2.5	0 594

KODAK
 STATION AR1-069
 INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.+VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.52	27.655	22.24	559.6	0 000
10	-1.51	27.762	22.33	551.2	0 033
20	-1.53	27.780	22.35	549.7	0 088
30	-1.60	30.340	24.42	351.8	0 133
50	-1.56	31.280	25.18	279.2	0 196
75	-1.48	31.740	25.55	243.8	0 261
100	-1.36	32.410	26.09	192.4	0 316
150	-1.46	33.180	26.71	132.8	0 397
200	-1.48	33.672	27.11	94.7	0 454
250	-0.56	34.356	27.63	46.0	0 489
300	-0.05	34.650	27.85	26.3	0 507
400	0.45	34.842	27.97	14.8	0 528
500	0.52	34.870	27.99	13.3	0 542
600	0.34	34.896	28.02	10.2	0 554
700	0.19	34.917	28.05	7.6	0 563
800	0.06	34.930	28.07	5.7	0 570
1000	-0.14	34.930	28.08	4.2	0 580
1200	-0.26	34.930	28.08	3.2	0 587

STATION AR1-071
 INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.+VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.51	27.842	22.40	545.1	0 000
10	-1.51	27.840	22.39	545.2	0 033
20	-1.55	28.680	23.07	480.1	0 084
30	-1.66	30.208	24.31	361.9	0 126
50	-1.55	31.246	25.15	281.9	0 190
75	-1.40	31.620	25.45	253.2	0 257
100	-1.38	32.450	26.12	189.3	0 312
150	-1.48	32.986	26.56	147.6	0 396
200	-1.46	33.636	27.08	97.6	0 457
250	-0.56	34.490	27.74	35.8	0 490
300	-0.01	34.680	27.87	24.2	0 505
400	0.46	34.730	27.88	23.3	0 529
500	0.49	34.785	27.93	19.5	0 550
600	0.31	34.840	27.98	14.2	0 567
700	0.17	34.840	27.99	13.2	0 581
800	0.05	34.850	28.00	11.6	0 593
1000	-0.13	34.900	28.05	6.5	0 611
1200	-0.25	34.920	28.07	4.0	0 621

STATION AR1-073
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP., VOL., ANOMALY	GEOPOT., ANOMALY
4	-0.50	27.960	22.47	537.6	0 000
10	-0.49	27.946	22.46	538.6	0 032
20	-0.33	28.123	22.60	525.2	0 085
30	-1.66	30.180	24.29	364.0	0 129
50	-1.60	31.288	25.19	278.5	0 193
75	-1.47	31.940	25.71	228.4	0 256
100	-1.44	32.512	26.17	184.4	0 308
150	-1.53	33.180	26.72	132.6	0 387
200	-1.30	33.778	27.19	87.2	0 442
250	-0.33	34.490	27.73	37.0	0 473
300	0.07	34.695	27.88	23.5	0 488
400	0.48	34.830	27.96	15.9	0 508
500	0.49	34.878	28.00	12.5	0 522
600	0.32	34.910	28.04	9.0	0 533
700	0.17	34.916	28.05	7.5	0 541
800	0.05	34.920	28.06	6.4	0 548
1000	-0.13	34.926	28.07	4.6	0 559
1200	-0.24	34.960	28.11	1.1	0 565

STATION AR1-075
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP., VOL., ANOMALY	GEOPOT., ANOMALY
4	-1.51	27.620	22.22	562.3	0 000
10	-1.51	27.720	22.30	554.5	0 034
20		27.806			
30	-1.63	31.020	24.97	299.3	0 119
50	-1.62	31.376	25.26	271.7	0 176
75	-1.43	32.214	25.93	207.5	0 236
100	-1.45	32.670	26.30	172.2	0 283
150	-1.57	33.305	26.82	122.9	0 357
200	-1.18	34.045	27.41	67.3	0 405
250	-0.25	34.504	27.74	36.3	0 431
300	0.14	34.716	27.89	22.4	0 446
400	0.49	34.814	27.95	17.2	0 466
500	0.49	34.864	27.99	13.5	0 481
600	0.36	34.870	28.00	12.3	0 494
700	0.18	34.862	28.01	11.6	0 506
800	0.04	34.875	28.02	9.7	0 517
1000	-0.14	34.960	28.10	1.9	0 529
1200	-0.24	34.974	28.12	1.2	0 531

STATION AR1-077
INTERPOLATED AND COMPUTED VALUES.

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.55	27.838	22.39	545.4	0 000
10	-1.51	27.844	22.40	544.9	0 033
20	-1.55	27.916	22.46	539.1	0 087
30	-1.63	30.240	24.34	359.4	0 132
50	-1.57	31.340	25.23	274.6	0 195
75	-1.46	32.120	25.86	214.6	0 256
100	-1.42	32.640	26.28	174.6	0 305
150	-1.58	33.215	26.75	129.7	0 381
200	-1.26	33.800	27.21	85.7	0 435
250	-0.29	34.496	27.73	36.7	0 466
300	-0.02	34.760	27.93	18.1	0 480
400	0.48	34.798	27.94	18.3	0 498
500	0.49	34.798	27.94	18.5	0 516
600	0.30	34.856	27.99	12.9	0 532
700	0.17	34.882	28.02	10.1	0 543
800	0.05	34.898	28.04	8.0	0 552
1000	-0.14	34.898	28.05	6.6	0 567
1200	-0.26	34.898	28.06	5.5	0 579

STATION AR1-079
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.54	27.832	22.39	545.9	0 000
10	-1.52	27.858	22.41	543.8	0 033
20	-1.58	27.898	22.44	540.5	0 087
30	-1.63	30.046	24.18	374.4	0 133
50	-1.65	31.256	25.16	280.9	0 199
75	-1.46	32.180	25.90	210.0	0 260
100	-1.43	32.686	26.31	171.1	0 308
150	-1.50	33.300	26.81	123.5	0 382
200	-1.14	34.036	27.40	68.1	0 430
250	-0.28	34.586	27.81	29.9	0 455
300	0.15	34.696	27.87	23.9	0 468
400	0.49	34.766	27.91	20.8	0 490
500	0.47	34.874	28.00	12.6	0 507
600	0.27	34.880	28.01	10.9	0 519
700	0.15	34.880	28.02	10.1	0 529
800	0.04	34.880	28.03	9.3	0 539
1000	-0.13	34.880	28.04	8.0	0 556
1200	-0.26	34.916	28.07	4.6	0 569

STATION AR1-081
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.54	27.896	22.44	540.9	0 000
10	-1.54	27.920	22.46	539.0	0 032
20	-1.57	28.470	22.90	496.3	0 084
30	-1.68	30.196	24.30	362.8	0 127
50	-1.71	31.196	25.11	285.4	0 192
75	-1.52	32.040	25.79	220.6	0 255
100	-1.57	32.716	26.34	168.4	0 304
150	-1.64	33.366	26.87	118.0	0 376
200	-0.82	34.230	27.54	54.6	0 419
250	-0.13	34.650	27.85	25.9	0 439
300	0.23	34.760	27.92	19.6	0 450
400	0.42	34.830	27.97	15.5	0 468
500	0.48	34.900	28.02	10.8	0 481
600	0.32	34.900	28.03	9.7	0 491
700	0.16	34.900	28.04	8.6	0 500

STATION AR1-083
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.52	27.898	22.44	540.8	0 000
10	-1.53	27.910	22.45	539.8	0 032
20	-1.62	29.040	23.37	452.2	0 082
30	-1.67	30.286	24.38	355.8	0 122
50	-1.73	31.178	25.10	286.8	0 186
75	-1.50	32.080	25.82	217.6	0 249
100	-1.44	32.720	26.34	168.4	0 297
150	-1.68	33.358	26.86	118.5	0 369
200	-0.76	34.200	27.52	57.1	0 413
250	-0.15	34.603	27.81	29.3	0 435
300	0.22	34.785	27.94	17.6	0 447
400	0.52	34.860	27.98	13.9	0 463
500	0.45	34.920	28.04	9.0	0 474
600	0.30	34.920	28.05	8.1	0 483

STATION AR1-085
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.56	28.322	22.78	508.0	0 000
10	-1.58	28.380	22.83	503.4	0 030
20	-1.57	28.370	22.82	504.0	0 080
30	-1.62	29.180	23.48	441.2	0 127
50	-1.62	30.950	24.91	304.5	0 202
75	-1.51	31.996	25.76	224.1	0 268
100	-1.50	32.920	26.50	152.9	0 315
150	-1.54	33.480	26.96	109.6	0 381
200	-0.50	34.440	27.70	40.0	0 418
250	-0.04	34.690	27.88	23.3	0 434
300	0.34	34.730	27.89	22.5	0 445
400	0.51	34.866	27.99	13.4	0 463

STATION AR1-087
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.56	28.286	22.76	510.7	0 000
10	-1.59	28.346	22.80	506.0	0 031
20	-1.59	28.350	22.81	505.5	0 082
30	-1.59	28.700	23.09	478.3	0 131
50	-1.63	30.700	24.71	323.8	0 211
75	-1.53	31.900	25.68	231.4	0 280
100	-1.67	32.808	26.42	161.1	0 329
150	-1.39	33.768	27.19	88.0	0 391
200	-0.42	34.515	27.76	34.7	0 422
250	0.01	34.695	27.88	23.2	0 436
300	0.36	34.808	27.95	16.7	0 446
400	0.62	34.916	28.02	10.4	0 460

STATION AR1-089

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP., VOL.	GEOPOT.
				ANOMALY	ANOMALY
4	-1.57	28.366	22.82	504.6	0 000
10	-1.61	28.395	22.84	502.2	0 030
20	-1.59	28.602	23.01	486.1	0 079
30	-1.64	29.910	24.07	384.9	0 123
50	-1.62	31.256	25.16	281.0	0 190
75	-1.46	32.120	25.86	214.6	0 252
100	-1.43	32.720	26.34	168.5	0 300
150	-1.65	33.370	26.87	117.7	0 372
200	-0.69	34.390	27.67	42.9	0 412
250	-0.15	34.670	27.87	24.2	0 429
300	0.28	34.780	27.93	18.4	0 440
400	0.65	34.936	28.04	9.1	0 454

STATION AR1-091

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP., VOL.	GEOPOT.
				ANOMALY	ANOMALY
4	-1.55	28.030	22.55	530.6	0 000
10	-1.59	28.118	22.62	523.6	0 032
20	-1.63	29.440	23.69	421.3	0 079
30	-1.67	30.192	24.30	363.1	0 118
50	-1.66	31.092	25.03	293.5	0 184
75	-1.50	31.990	25.75	224.5	0 249
100	-1.53	32.749	26.37	166.0	0 298
150	-1.59	33.410	26.90	114.8	0 368
200	-0.72	34.310	27.60	48.9	0 409
250	-0.10	34.660	27.86	25.3	0 428
300	0.27	34.790	27.94	17.5	0 439
400	0.49	34.904	28.02	10.4	0 453

STATION AR1-093
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.810	23.18	470.2	0 000
10	-1.61	28.750	23.13	474.7	0 028
20	-1.61	28.856	23.22	466.4	0 075
30	-1.66	30.080	24.21	371.7	0 117
50	-1.71	31.152	25.08	288.8	0 183
75	-1.49	31.940	25.71	228.4	0 248
100	-1.52	32.796	26.40	162.4	0 297
150	-1.55	33.530	27.00	105.7	0 364
200	-0.56	34.428	27.69	40.6	0 401
250	0.00	34.742	27.92	19.6	0 416
300	0.35	34.822	27.96	15.6	0 425
400	0.40	34.940	28.06	7.1	0 436

STATION AR1-095
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.771	23.15	473.2	0 000
10	-1.62	28.790	23.16	471.7	0 028
20	-1.61	28.780	23.16	472.3	0 075
30	-1.63	29.326	23.60	430.0	0 120
50	-1.62	30.890	24.86	309.2	0 194
75	-1.54	31.872	25.66	233.5	0 262
100	-1.68	32.831	26.44	159.3	0 311
150	-1.40	33.700	27.13	93.1	0 374
200	-0.41	34.496	27.74	36.2	0 406
250	0.06	34.710	27.89	22.4	0 421
300	0.41	34.782	27.93	19.0	0 431
400	0.44	34.930	28.05	8.1	0 445

STATION AR1-097

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.58	28.920	23.27	461.7	0 000
10	-1.62	28.930	23.28	460.8	0 028
20	-1.64	29.254	23.54	435.6	0 073
30	-1.65	30.265	24.36	357.5	0 113
50	-1.70	31.270	25.17	279.8	0 177
75	-1.46	32.095	25.84	216.6	0 239
100	-1.48	32.780	26.39	163.7	0 287
150	-1.63	33.442	26.93	112.2	0 356
200	-0.62	34.333	27.62	47.6	0 396
250	-0.10	34.676	27.87	24.1	0 414
300	0.30	34.790	27.94	17.7	0 424
400	0.49	34.864	27.99	13.4	0 440

STATION AR1-099

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.61	29.050	23.37	451.6	0 000
10	-1.64	29.120	23.43	446.1	0 027
20	-1.67	29.840	24.01	390.4	0 069
30	-1.70	30.430	24.49	344.7	0 106
50	-1.66	31.186	25.10	286.3	0 169
75	-1.53	31.980	25.74	225.2	0 233
100	-1.47	32.745	26.36	166.4	0 282
150	-1.65	33.386	26.89	116.5	0 353
200	-0.67	34.260	27.56	52.9	0 395
250	-0.14	34.630	27.84	27.3	0 415
300	0.29	34.750	27.91	20.7	0 427
400	0.50	34.836	27.97	15.6	0 445

STATION ARI-101
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.61	29.360	23.62	427.7	0 000
10	-1.65	29.362	23.63	427.4	0 026
20	-1.69	30.020	24.16	376.5	0 066
30	-1.70	30.466	24.52	341.9	0 102
50	-1.73	31.170	25.09	287.4	0 165
75	-1.58	31.966	25.73	226.2	0 229
100	-1.47	32.655	26.29	173.3	0 279
150	-1.67	33.400	26.90	115.3	0 351
200	-0.68	34.306	27.60	49.4	0 392
250	-0.05	34.670	27.86	24.8	0 411
300	0.30	34.816	27.96	15.8	0 421
400	0.48	34.920	28.04	9.1	0 433

STATION ARI-103
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	29.120	23.43	446.2	0 000
10	-1.65	29.308	23.58	431.6	0 026
20	-1.68	30.026	24.16	376.0	0 066
30	-1.70	30.544	24.58	335.9	0 102
50	-1.72	31.270	25.17	279.7	0 164
75	-1.62	31.888	25.67	232.1	0 228
100	-1.66	32.743	26.36	166.1	0 278
150	-1.58	33.510	26.98	107.2	0 346
200	-0.65	34.420	27.69	40.8	0 383
250	-0.12	34.818	27.99	13.2	0 396
300	0.32	34.916	28.04	8.3	0 401
400	0.46	34.990	28.09	3.7	0 407

STATION AR1-105
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	28.955	23.30	459.0	0 000
10	-1.62	28.960	23.30	458.5	0 028
20	-1.67	29.826	24.00	391.5	0 070
30	-1.70	30.540	24.58	336.2	0 106
50	-1.74	31.242	25.15	281.8	0 168
75	-1.61	31.910	25.69	230.4	0 232
100	-1.50	32.736	26.36	167.0	0 282
150	-1.61	33.430	26.92	113.2	0 352
200	-0.68	34.302	27.60	49.7	0 393
250	-0.13	34.690	27.88	22.8	0 411
300	0.30	34.780	27.93	18.5	0 421
400	0.48	34.900	28.02	10.6	0 436

STATION AR1-107
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.59	28.962	23.30	458.5	0 000
10	-1.63	28.960	23.30	458.5	0 028
20	-1.68	30.220	24.32	361.1	0 069
30	-1.71	30.946	24.91	304.9	0 102
50	-1.74	31.530	25.38	259.7	0 158
75	-1.64	31.846	25.64	235.3	0 220
100	-1.48	32.606	26.25	177.1	0 272
150	-1.50	33.450	26.93	112.0	0 344
200	-0.61	34.333	27.62	47.7	0 384
250	-0.06	34.676	27.87	24.3	0 402
300	0.29	34.788	27.94	17.8	0 413
400		34.886			

STATION ARI-109

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.60	29.264	23.55	435.1	0 000
10	-1.64	29.250	23.54	436.1	0 026
20	-1.68	30.000	24.14	378.0	0 067
30	-1.70	30.990	24.95	301.5	0 101
50	-1.73	31.555	25.40	257.8	0 157
75	-1.62	31.860	25.65	234.3	0 219
100	-1.46	32.568	26.22	180.1	0 271
150	-1.62	33.485	26.97	109.0	0 343
200	-0.58	34.400	27.67	42.7	0 381
250	-0.07	34.699	27.89	22.5	0 397
300	0.33	34.820	27.96	15.6	0 407
400	0.43	34.956	28.07	6.1	0 418

STATION ARI-111

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP.VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.62	29.360	23.62	427.7	0 000
10	-1.64	29.360	23.63	427.6	0 026
20	-1.67	30.106	24.23	369.9	0 066
30	-1.69	30.999	24.95	300.9	0 100
50	-1.73	31.546	25.40	258.5	0 156
75	-1.63	31.820	25.62	237.3	0 218
100	-1.48	32.550	26.20	181.4	0 270
150	-1.64	33.420	26.91	113.9	0 344
200	-0.59	34.346	27.63	46.8	0 384
250	-0.06	34.693	27.88	23.0	0 401
300	0.31	34.780	27.93	18.5	0 411
400	0.45	34.900	28.02	10.4	0 425

STATION AR1-113
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP., °C	SAL.	SIGMA-T	SP. VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.61	29.338	23.61	429.4	0 000
10	-1.66	29.406	23.66	424.0	0 026
20	-1.65	29.626	23.84	406.9	0 068
30	-1.68	30.866	24.84	311.1	0 104
50	-1.74	31.460	25.33	265.1	0 162
75	-1.55	31.890	25.67	232.1	0 224
100	-1.60	32.678	26.31	171.2	0 274
150	-1.66	33.416	26.91	114.1	0 345
200	-0.60	34.326	27.61	48.2	0 386
250	-0.09	34.680	27.87	23.8	0 404
300	0.29	34.760	27.92	19.9	0 415
400	0.42	34.871	28.00	12.4	0 431

STATION AR1-115
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP., °C	SAL.	SIGMA-T	SP. VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.72	29.546	23.78	413.2	0 000
10	-1.66	29.550	23.78	412.9	0 025
20	-1.66	30.068	24.20	372.8	0 064
30	-1.68	30.905	24.88	308.1	0 098
50	-1.73	31.553	25.40	257.9	0 155
75	-1.60	31.956	25.73	226.9	0 216
100	-1.49	32.670	26.30	172.1	0 266
150	-1.64	33.440	26.93	112.3	0 337
200	-0.60	34.350	27.63	46.4	0 377
250	-0.09	34.680	27.87	23.8	0 395
300	0.31	34.776	27.93	18.8	0 406
400	0.42	34.871	28.00	12.4	0 422

STATION ARI-117
INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP.	SAL.	SIGMA-T	SP. VOL. ANOMALY	GEOPOT. ANOMALY
4	-1.63	29.698	23.90	401.6	0 000
10	-1.68	29.700	23.90	401.3	0 024
20	-1.70	30.660	24.68	327.1	0 060
30	-1.71	31.142	25.07	289.8	0 091
50	-1.70	31.640	25.47	251.3	0 145
75	-1.63	31.980	25.75	225.0	0 205
100	-1.47	32.658	26.29	173.1	0 255
150	1.67	33.303	26.82	122.9	0 329
200	-0.76	34.220	27.53	55.6	0 374
250	-0.17	34.626	27.83	27.5	0 395
300	0.28	34.785	27.94	18.0	0 406

TABLE III

POSITIONS OF ARIIS I

September 25, 1960 - March 18, 1961

POSITIONS OF ARISS I

September 25, 1960 to March, 1961

Month	Day	Hour	LATITUDE		LONGITUDE	
			Degrees	Minutes	Degrees	Minutes
Sept.	25	2125	74	40.0	141	06
Sept.	26	1925	73	11.0	140	49
Sept.	29	0405	73	12	140	40
Sept.	29	1850	73	09	140	32
Sept.	29	2315	73	08	140	31
Sept.	30	0245	73	07	140	30
Sept.	30	0600	73	06	140	30
Sept.	30	2025	73	03	140	30
Oct.	1	0120	73	01.5	140	31
Oct.	2	0150	73	00	141	04
Oct.	3	1950	74	58	142	08.5
Oct.	5	2030	74	50.5	143	48
Oct.	6	0225	74	47.5	143	41
Oct.	6	2245	74	45	143	35
Oct.	7	0650	74	46.5	143	30
Oct.	7	2055	74	29.5	143	28
Oct.	8	0200	74	29.5	143	29
Oct.	8	2105	74	37	143	21
Oct.	9	0245	74	36	143	19
Oct.	10	2040	74	34.5	143	17
Oct.	11	0055	74	34.5	143	16
Oct.	14	0345	74	30	144	30
Oct.	14	0700	74	29	144	37
Oct.	15	2240	74	30	144	26

POSITIONS OF ARIES I

-2-

Month	Day	Hour	LATITUDE		LONGITUDE	
			Degrees	Minutes	Degrees	Minutes
Oct.	15	04	74	29	144	50
Oct.	16	04	74	30	144	00
Oct.	19	08	74	44	144	44
Oct.	20	21	74	42	144	38
Oct.	21	03	74	45	144	46
Oct.	22	03	74	50	145	15
Oct.	23	03	74	55	145	41
Oct.	24	04	74	56	146	11
Oct.	25	03	74	56.4	146	38
Oct.	26	03	74	53.8	147	10
Oct.	26	10	74	52.4	147	17
Oct.	28	03	74	46.6	148	04
Oct.	29	03	74	42.7	148	22
Oct.	30	09	74	42.0	148	37
Oct.	31	03	74	36.8	148	54
Nov.	1	03	74	33.5	149	16
Nov.	2	03	74	30.6	149	23
Nov.	3	04	74	30.4	149	41
Nov.	4	02	74	27.8	149	46
Nov.	5	02	74	27.2	149	50
Nov.	6	02	74	29.2	149	56
Nov.	7	03	74	29.8	149	59
Nov.	8	18	74	24.4	150	03
Nov.	9	19	74	23.6	150	03

POSITIONS OF ARIS I

-3-

Month	Day	Hour	LATITUDE		LONGITUDE	
			Degrees	Minutes	Degrees	Minutes
Nov.	10	19	74	20.8	150	11.0
Nov.	11	19	74	18.8	150	20.0
Nov.	12	23	74	17.1	150	26.0
Nov.	14	01	74	17.1	150	32.0
Nov.	14	18	74	17.0	150	40.0
Nov.	15	23	74	16.7	151	02.0
Nov.	16	20	74	14.8	151	13.0
Nov.	18	02	74	15.0	151	32.0
Nov.	18	20	74	16.0	151	46.0
Nov.	20	07	74	15.2	152	09.0
Nov.	25	01	74	02.4	152	07.0
Nov.	26	02	74	05.6	152	09.0
Nov.	26	18	74	07.3	152	26.0
Nov.	27	07	74	10.4	152	36.0
Nov.	28	08	74	17.3	153	12.0
Nov.	29	01	74	19.0	153	22.0
Nov.	30	01	74	19.6	153	38.0
Dec.	1	02	74	16.4	153	46.0
Dec.	1	23	74	12.5	154	07.0
Dec.	2	20	74	10.0	154	20.0
Dec.	3	20	74	08.5	154	37.0
Dec.	4	20	74	07.9	154	48.0
Dec.	5	22	74	08.2	155	09.0

POSITIONS OF ARLES I

-4-

Month	DATE		LATITUDE		LONGITUDE	
	Day	Hour	Degrees	Minutes	Degrees	Minutes
Dec.	6	19	74	09.4	155	18.0
Dec.	7	20	74	07.6	155	15.5
Dec.	9	02	74	06.1	155	38.0
Dec.	10	06	74	04.5	156	10.0
Dec.	11	21	74	11.0	156	59.0
Dec.	12	05	74	10.0	157	00.0
Dec.	13	01	74	08.5	156	56.0
Dec.	13	20	74	08.4	157	02.0
Dec.	15	22	74	04.1	157	08.0
Dec.	17	00	74	04.7	157	07.0
Dec.	18	23	74	22.7	157	34.0
Dec.	19	21	74	24.0	157	37.0
Dec.	20	22	74	25.3	157	53.5
Dec.	24	02	74	38.4	159	28.5
Dec.	26	02	74	47.72	160	10.0
Dec.	26	22	74	47.5	160	05.0
Dec.	27	21	74	46.9	160	15.0
Dec.	29	01	74	45.0	160	45.0
Dec.	29	20	74	44.2	161	08.0
Dec.	30	21	74	41.6	161	17.0
Dec.	31	21	74	41.4	161	31.0
Jan.	1	01	74	41.4	161	33.0
Jan.	2	02	74	42.5	161	50.0
Jan.	3	20	74	39.4	162	15.0

POSITIONS OF AIRLIE I

-3-

Month	Day	Hour	LATITUDE		LONGITUDE	
			Degrees	Minutes	Degrees	Minutes
Jan.	4	23	74	38.3	162	29.0
Jan.	5	22	74	33.9	162	37.0
Jan.	6	22	74	33.2	162	36.0
Jan.	7	22	74	33.1	162	40.0
Jan.	8	22	74	36.7	162	51.5
Jan.	10	22	74	42.2	163	14.5
Jan.	11	22	74	43.1	163	23.0
Jan.	13	02	74	42.6	163	26.0
Jan.	14	09	74	38.8	163	34.0
Jan.	15	02	74	36.1	163	43.0
Jan.	17	07	74	31.0	163	52.0
Jan.	18	22	74	30.6	163	50.0
Jan.	22	23	74	42.5	163	15.0
Jan.	24	03	74	45.5	163	17.0
Jan.	26	02	74	44.5	163	19.0
Jan.	27	04	74	45.1	163	34.0
Jan.	27	21	74	47.2	163	30.0
Jan.	29	00	74	52.5	163	38.0
Jan.	30	00	74	52.5	163	42.0
Jan.	31	02	74	51.5	163	48.0
Feb.	2	03	74	45.9	163	58
Feb.	3	04	74	45.35	163	51
Feb.	4	03	74	44.0	163	46

POSITIONS OF ARIE I

-6-

Month	DATE			LATITUDE		LONGITUDE	
	Day	Hour		Degrees	Minutes	Degrees	Minutes
Feb.	5	03		74	45.2	165	33
Feb.	6	04		74	46.0	165	26
Feb.	7	03		74	46.1	165	38
Feb.	10	03		74	46.6	165	36
Feb.	11	03		74	45.1	165	41
Feb.	12	03		74	46.0	165	45
Feb.	14	03		74	49.0	165	53
Feb.	16	05		74	50.0	165	53
Feb.	19	06		74	49.7	166	02
Feb.	20	06		74	50.9	166	03
Feb.	21	07		74	51.4	166	02
Feb.	22	07		74	50.5	166	07
Feb.	23	06		74	48.3	166	07
Feb.	24	06		74	45.1	166	05
Feb.	26	06		74	42.1	166	10
Feb.	28	06		74	42.4	166	08
Mar.	2	06		74	41.3	166	14
Mar.	4	07		74	46.6	166	30
Mar.	6	07		74	48.1	166	32
Mar.	8	07		74	46.6	166	36
Mar.	10	06		74	48.7	166	44
Mar.	12	08		74	50.8	167	15
Mar.	13	08		74	53	167	45
Mar.	15	07		74	58.8	168	26

POSITIONS OF ARIIS I

-7-

Month	Day	Hour	LATITUDE		LONGITUDE	
			Degrees	Minutes	Degrees	Minutes
Mar.	16	00	73	00	168	45
Mar.	17	00	73	00	169	18
Mar.	17	08	74	38.3	169	28
Mar.	18	08	74	39.2	169	30

TABLE IV

POSITIONS OF BATHYTERMOMETER OBSERVATIONS

ARLIS I

POSITIONS OF BATHYTERMOMETER OBSERVATIONS

Slide No.	Month	Date 1960			Latitude		Longitude	
		Day	Hour	Degrees	Minutes	Degrees	Minutes	
1	Sept	25	2125	74	40.0	141	07.0	
2	Sept	26	1925	75	10.8	140	48.0	
3	Sept	29	0405	75	12.0	140	40.0	
4	Sept	29	1850	75	08.8	140	33.0	
5	Sept	29	2315	75	08.0	140	30.0	
6	Sept	30	0245	75	06.7	140	30.0	
7	Sept	30	0500	75	05.7	140	30.0	
8	Sept	30	2025	75	03.0	140	32.0	
9	Oct	1	0150	75	01.5	140	33.0	
10	Oct	2	0150	75	00.0	141	04.0	
11	Oct	3	1950	74	57.7	142	10.0	
12	Oct	5	2030	74	51.0	143	51.0	
13	Oct	6	0225	74	47.5	143	43.0	
14	Oct	6	2245	74	45.5	143	37.0	
15	Oct	7	0645	74	46.5	143	32.5	
16	Oct	7	2055	74	30.5	143	31.0	
17	Oct	8	0200	74	30.5	143	33.0	
18	Oct	8	2105	74	37.0	143	23.0	
19	Oct	9	0245	74	36.7	143	21.0	
20	Oct	10	2040	74	33.5	143	17.0	
21	Oct	11	0055	74	33.5	143	24.0	
22	Oct	14	0345	74	29.7	144	30.0	
23	Oct	14	0700	74	29.0	144	37.0	
24	Oct	15	2240	74	29.5	144	54.0	
25	Oct	16	0045	74	29.5	144	54.0	

POSITIONS OF BATHYTERMOMETER OBSERVATIONS

B. T. Slide No.	Date 1960			Latitude		Longitude	
	Month	Day	Hour	Degrees	Minutes	Degrees	Minutes
26	Oct	16	0155	74	29.3	144	52.5
27	Oct	16	0245	74	29.3	144	53.5
28	Oct	17	1935	74	36.0	144	53.0
29	Oct	18	0220	74	38.2	144	50.0
30	Oct	20	0450	74	43.5	144	41.0
31	Oct	21	0205	74°	44.8	144	46.0
32	Oct	22	0045	74	49.2	145	12.5
33	Oct	23	0025	74	54.0	145	37.0
34	Oct	23	0215	74	54.8	145	40.0
35	Oct	23	0615	74	55.0	145	50.0
36	Oct	24	2040	74	56.3	146	25.0
37	Oct	24	2310	74	56.3	146	32.0
38	Oct	25	0035	74	56.3	146	32.0
39	Oct	26	2100	74	56.3	147	31.0
40	Oct	27	0145	74	49.5	147	40.0
41	Oct	28	2045	74	44.0	148	15.0
42	Oct	29	0140	74	43.0	148	19.0
43	Oct	30	2230	74	39.0	148	48.0
44	Oct	31	0300	74	37.5	148	33.0
45	Nov	1	0010	74	34.5	149	12.0
46	Nov	1	0245	74	33.9	149	17.0
47	Nov	1	0500	74	33.0	149	22.0
48	Nov	2	2120	74	31.0	149	33.5
49	Nov	3	0010	74	30.7	149	39.0

POSITIONS OF BAROMETEROGRAPH OBSERVATIONS

B. T. Slide No.	Date 1960			Latitude		Longitude	
	Month	Day	Hour	Degrees	Minutes	Degrees	Minutes
50	Nov	3	0250	74	30.7	149	40.0
51	Nov	6	0100	74	29.3	149	36.0
52	Nov	6	0620	74	30.0	149	37.5
53	Nov	7	2130	74	28.1	150	03.0
54	Nov	7	2150	74	26.8	150	03.0
55	Nov	8	0305	74	26.0	150	03.0
56	Nov	10	0145	74	23.2	150	07.0
57	Nov	10	0205	74	23.2	150	07.0
58	Nov	11	0200	74	21.0	150	12.5
59	Nov	11	0640	74	20.0	150	14.5
60	Nov	12	0205	74	18.5	150	21.0
61	Nov	13	0340	74	17.5	150	25.0
62	Nov	14	0100	74	17.5	150	30.5
63	Nov	14	0355	74	17.7	150	34.0
64	Nov	15	0230	74	17.7	150	44.0
65	Nov	17	0010	74	16.5	151	18.0
66	Nov	17	0025	74	16.5	151	18.0
67	Nov	17	0450	74	16.2	151	24.0
68	Nov	19	0055	74	16.2	151	49.0
69	Nov	19	0455	74	16.0	151	56.0
70	Nov	20	0450	74	16.0	152	06.0
71	Nov	24	0115	74	04.5	152	06.0
72	Nov	25	0815	74	04.0	152	11.5
73	Nov	28	0025	74	15.0	153	02.0

POSITIONS OF BATHYHERMOGRAPH OBSERVATIONS

B. T. Slide No.	Date 1960			Latitude		Longitude	
	Month	Day	Hour	Degrees	Minutes	Degrees	Minutes
74	Nov	29	0020	74	18.5	153	19.0
75	Nov	29	0715	74	18.7	153	26.0
76	Nov	29	2355	74	19.2	153	35.5
77	Nov	30	0610	74	18.5	153	38.0
78	Dec	3	0010	74	09.3	154	22.5
79	Dec	3	0615	74	08.5	154	28.0
80	Dec	4	0105	74	08.0	154	39.0
81	Dec	4	0125	74	08.0	154	39.0
82	Dec	5	0020	74	07.3	154	49.0
83				Broken			
84				Broken			
85	Dec	12	1820	74	09.2	156	58.0
86	Dec	21	0025	74	26.1	157	57.0
87	Dec	21	0825	74	27.5	158	04.5
88	Dec	26	2000	74	48.2	160	05.5
89	Dec	27	0225	74	47.5	160	05.5
90	Dec	29	2345	74	43.5	161	07.0
91	Dec	30	0730	74	42.7	161	09.0
92	Jan	1	0100	74	41.0	161	32.0
93	Jan	1	0700	74	41.5	161	38.0
94	Jan	3	2330	74	39.5	162	18.0
95	Jan	4	0325	74	39.0	162	22.0
96	Jan	6	2240	74	35.2	162	37.0
97	Jan	7	0320	74	35.2	162	40.0

POSITIONS OF BATHYTERMOMETER OBSERVATIONS

B. T. Slide No.	Date 1960			Latitude	Longitude
	Month	Day	Hour	Degrees Minutes	Degrees Minutes
98	Jan	10	2235	74 41.9	163 13.0
99	Jan	11	0320	74 42.3	163 21.0
100	Jan	13	2240	74 41.0	163 30.0
101	Jan	14	0325	74 40.2	163 31.0
102	Jan	16	2215	74 33.6	163 50.0
103	Jan	17	0215	74 32.0	163 51.0
104	Jan	19	2145	74 33.0	164 20.0
105	Jan	20	0335	74 33.7	164 24.0
106	Jan	22	2005	74 41.7	165 14.0
107	Jan	23	0120	74 42.5	165 15.0
108	Jan	25	2115	74 43.0	165 18.0
109	Jan	26	0145	74 44.5	163 20.0
110	Jan	28	2115	74 52.2	165 58.0
111	Jan	29	0235	74 52.5	165 57.5
112	Jan	31	2045	74 49.5	165 52.0
113	Feb	1	0120	74 49.2	165 53.0
114	Feb	3	2120	74 44.8	163 49.0
115	Feb	4	0235	74 44.3	165 47.0
116	Feb	6	2020	74 46.1	165 36.0
117	Feb	7	0110	74 46.1	165 37.5
118	Feb	9	2025	74 46.3	165 37.5
119	Feb	10	0205	74 46.3	165 36.5
120	Feb	12	2015	74 47.6	165 49.0
121	Feb	13	0235	74 48.2	165 51.5

POSITIONS OF BAROTHERMOGRAPH OBSERVATIONS

B. T. Slide No.	Date 1960			Latitude		Longitude	
	Month	Day	Hour	Degrees	Minutes	Degrees	Minutes
122	Feb	15	2010	74	49.2	165	53.0
123	Feb	16	0035	74	49.3	165	54.0
124	Feb	18	2140	74	49.8	165	59.0
125	Feb	19	0220	74	49.7	166	01.0
126	Feb	21	2050	74	51.0	166	06.0
127	Feb	22	0130	74	50.7	166	07.0
128	Feb	24	2025	74	44.4	166	06.0
129	Feb	25	0155	74	44.0	166	07.5
130	Feb	27	2015	74	42.0	166	10.0
131	Feb	28	0105	74	41.8	166	11.0
132	Mar	2	1940	74	43.0	166	22.0
133	Mar	3	0030	74	43.0	166	22.0
134	Mar	5	2105	74	48.0	166	32.0
135	Mar	6	0145	74	48.0	166	32.0
136	Mar	8	2110	74	47.5	166	41.0
137	Mar	9	0220	74	47.5	166	41.0
138	Mar	11	1930	74	50.0	167	07.0
139	Mar	12	0002	74	50.2	167	11.0

TABLE V

CURRENT MEASUREMENTS

Current Measurements

Velocity - cm/sec
Direction - Uncorrected
Magnetic Set

ARLIS I

Depth Meter	Oct.	6	Oct	18	Oct	20	Oct	22	Nov.	14	Nov.	19	Nov.	28
	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.
5	0.64	310	4.02	170	12.35	210	13.28	071	5.15	045	0.62	050	12.56	---
7 1/2							17.61	084						
10		5.51	150	12.72	222	18.43	080	9.23	040	3.66	052			
15	12.15	303	5.51	180	5.51	290	13.54	075	12.35	080	6.18	360		
20					16.47	222				7.72	350			
25	13.59	310	1.75	170	15.75	235	20.90	090	18.02	060	17.71	012		
30					16.06	285				4.32	010			
40					12.51	220				4.02	040			
50	11.69	322	0	--	15.60	285	12.35	100	26.25	090	0	--		
60										7.88	340			
75		0	--	16.78	285					9.89	320			
90												6.95	333	
100		0	--	12.30	300		17.61	090	15.96	080	8.29	330		

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